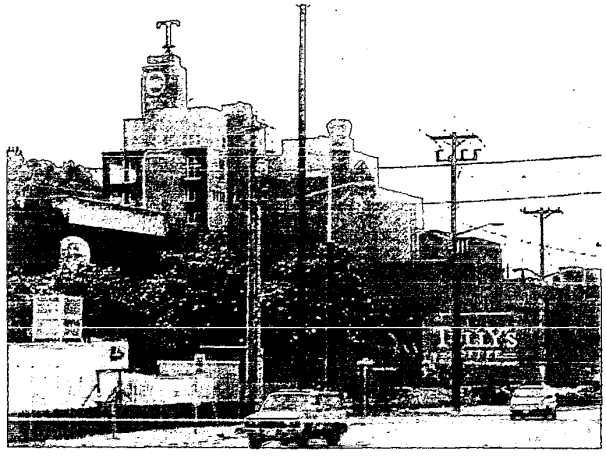

ASBESTOS BUILDING SURVEY REPORT

Former Rainier Brewery
3100 Airport Way
Seattle, Washington 98134

July 27, 2006

VEI Project #060628 ACM Survey

ASBESTOS BUILDING SURVEY REPORT

Former Rainier Brewery
3100 Airport Way
Seattle, Washington 98134

Project Number: 060628

July 27, 2006

Prepared For:

Mr. Eitan Alon
Ethan Construction, LLC
3100 Airport Way South
Seattle, WA 98134

Prepared By:

Vernon Environemtnal, Inc.
3849 Klahani Drive SE, #9202
Issaquah, WA 98029

EXECUTIVE SUMMARY

Vernon Environmental, Inc. (VEI), was retained to inspect the Former Rainer Brewery in Seattle, Washington located at 3100 Airport Way, Seattle, Wshington 98134 for asbestos-containing materials (ACM). The purpose of this inspection was to identify suspect friable and non-friable ACM. Materials, which were inaccessible or would require intrusive or destructive sampling, were not sampled as part of this project.

Asbestos-Containing Materials at the Site:

The survey was conducted on July 11, 12, and 20, 2006 by Vernon Environmental, Inc. (VEI) EPA/AHERA certified inspector Mr. Terry Bleckner, CIH. Mr. Bleckner collected 195 samples of friable and non-friable ACM in a random and unbiased manner, including samples of the roofs.

The project involved the interior inspection of Buildings 5/5A, 6 (east side only), 7, 10, 11, 12, 13, 14, 15, 18, 21/22, 23, and 25, including the stack and the tank farm.

The following ACMs were identified at the Site:

- Cork mastic (black and non-friable) was detected only in Building 23 on the water tank on level 2. The remaining observed cork mastic in Buildings 5/5A, 6, 7, 18, 21, and 22 was analyzed to be non-ACM. However, the plaster over the cork mastic in Building 6 was found to be ACM.
- Window putty (gray and non-friable - on original and older windows) – approx. 50 windows on Buildings 10, 11, 12, 13, 14, 15, and 23.
- Rope gaskets (white non-friable around metal door frames) – 12 total doors in Buildings 7, 21, 22, and 25.
- Thermal system insulation (TSI) on pipe insulation in various penetrations (white friable insulation and paper covering) in Buildings 7, 11, and 25.
- 9"x9" white floor tile and mastic – damaged and non-friable (approx. 750 SF) in Building 10.
- Roof surfaces (built up roofing and flashing/mastics) – black and gray and non-friable on Building 8, 13, 14, 15, 18, 21, and 22.

The following suspect ACMs were sampled during this inspection; however, asbestos was not detected:

- Cork (walls and ceilings).
- Foam and foam mastic
- Green flooring
- Plaster walls and ceiling
- Red stair covering and mastic
- 12"x12" red floor tiles and mastic
- Sheet rock and joint compound
- 12"x12" tan floor tile and mastic

- Maroon flooring
- Kiln firebrick
- Ceiling texture (cork)
- Cork pipe insulation
- Fire brick
- White sheet flooring
- Foam tank insulation (yellow)
- White covering on pipe insulation
- Brown sheet flooring and mastic
- 2'x2' ceiling tiles

The following suspect material types were not tested at the time of this inspection. These materials should be assumed to contain asbestos until they can be tested.

- Roofs (surface and flashing) of Buildings 1,2,3, and 24, as well as TSI on pipes in Building 15, as Building 15 was inaccessible during our survey.

Note: The roofs of Buildings 4, 6, 8, and 9 were sampled and ACM was detected on the roofs of Building 4 (surface and flashing) and Building 8 (flashing). The roofs of Buildings 1, 2, 3, and 24 (Tully's offices) were not sampled are presumed to be ACM (PACM).

Conclusions:

Asbestos-containing materials were identified in the following:

- Cork mastic (black and non-friable – on water tank – Building 23 – level 200). It is also located under plaster skim coating on Building 6.
- Window putty (gray and non-friable - on original and older windows)
- Rope gaskets (white non-friable around metal door frames)
- Thermal system insulation (TSI) on pipe insulation in various penetrations (white friable insulation)
- Roof surfaces (built up roofing and flashing/mastics) – black and gray and non-friable.

The Environmental Protection Agency (EPA) National Emission Standard for Hazardous Air Pollutants (NESHAP) requires removal of regulated friable and non-friable damaged ACM prior to demolition. EPA also requires the removal of regulated friable ACM and non-friable ACM that may become friable during renovation, as well as, Washington L&I regulations.

The Occupational Safety and Health Administration (OSHA) construction and general industry standards also regulate ACM during removal and maintenance activities. In 1995, OSHA adopted asbestos regulations that, for the first time, may extend to many previously unregulated commercial and industrial buildings. The regulations lower the permissible asbestos exposure level in the workplace. They also make a number of technical changes both in the way various regulated activities are classified and in the practices required when asbestos is used, removed, managed, or

disturbed. The biggest change, however, is to afford regulatory protection to more workers in more workplaces.

Recommendations:

Based on the results of this investigation, the following is recommended:

- Compliance with the Washington Labor and Industries (L&I) Asbestos Rules, Chapter 296-64 WAC.
- Removal of the identified ACM and PACMs by a State of Washington licensed and qualified asbestos abatement contractor should be conducted, prior to renovation or demolition, which may disturb these materials.
- Notification to Washington L&I at least 10 working days prior to renovation or demolition activities.
- Stop work immediately if unsampled suspect ACMs are found during building renovation or demolition activities.
- Obtain and follow a written ACM work plan outlining the proper removal and disposal of identified ACMs and PACMs.
- The facility owners should notify employees, tenants, contractors, and vendors working in the building of the presence, quantity, and location of identified or assumed ACM.
- The areas of the building not inspected during this investigation should be inspected and sampled for asbestos prior to any renovation, demolition, or disturbance of potential ACM.
- The owner should maintain an Operations and Maintenance (O&M) Program for ACM remaining in the facility.
- Air sampling and abatement contractor oversight should be conducted during abatement methods to document proper removal and containment techniques.

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APPENDICES

1.0 INTRODUCTION

The EPA's NESHAP (40 CFR Part 61) requires building owners to inspect for ACM, areas of a building where renovation or demolition will take place.

Prior to renovation or demolition of a building, all regulated friable ACM must be removed from the affected area. In addition, non-friable materials, which are in a damaged condition or are likely to become friable during the process of renovation or demolition also, require removal. Non-friable materials, which are in good condition at the time of inspection and most likely will not become friable during demolition may under certain circumstances, remain in place prior to demolition. EPA and OSHA define any building material, which contains greater than one percent asbestos to be asbestos-containing material.

1.1 Project Description

US EPA certified building inspector Mr. Terry Bleckner, Certified Indsutrial Hugienist (CIH), inspected the Site known as the Former Rainier Brewery complex, located at 3100 Airport Way, Seattle, Washington 98134. A total of 195 bulk samples were collected and analyzed. NVL Laboratories, Inc. from Seattle, Washington analyzed samples, a NVLAP accredited laboratory.

This survey consisted of the following buildings:

TABLE 1 – SITE BUILDINGS	
Building No.	Approx. Square Feet / Stories
5/5A	12,160 SF / 6-story
6 (level 2 - east side only)	16,200 SF / 4-story
7	17,280 SF / 4-story
10	3,800 SF / 2-story
11	3,800 SF / 1-story
12	2,500 SF / 1-story
13	4,400 SF / 2-story
14	13,500 SF / 2-story
15	11,800 SF / 2-story
18	5,700 SF / 1-story
21 / 22	39,000 SF / 5-story
23	1,200 SF / 1-story
25	39,900 SF / 7-story
Tank farm	15 wine holding tanks south of Building 15
Stack	Approx. 100' x 5' brick smoke stack

	south of Building 13

Note: Buildings 1,2,3, 4, 6, 8, 9, and 24 were excluded from this study; however, the roofs of these buildings were sampled, where feasible.

Site Drawings (north and south buildings) are attached displaying the buildings included and excluded for this survey.

Mr. Joseph Jackson with Ethan Construction, LLC, met Mr. Bleckner at the Site; however, Mr. Bleckner conducted the Site inspection unescorted. The buildings were unoccupied at the time of the inspection and appeared to have undergone significant renovations, as each building inspected is nearly gutted. A previous asbestos report was provided to us, as conducted by James P. Hurley Co. for Benaroya Capital in 1999.

Mr. Kyle King and Mr. Rob McNew with Snyder Roofing conducted the coring and patching of the roof surfaces, where applicable.

2.0 RESULTS

2.1 Asbestos-Containing Material

The following types of material were found to contain asbestos. The laboratory analytical results and chain of custody forms are included in Appendix A. In addition, photographs of the identified ACMs are included in Appendix G.

The following table outlines each building and the ACMs identified during our study:

TABLE 2 – ACM IDENTIFIED AT THE SITE

Building No.	ACM Identified (sample no.)	Condition	Friable	Approx. Quantity
5/5A	Cork debris/mastic (RB-32)	Damaged	Yes	500 SF
	Window putty (RB-21)	Damaged	No	50 windows
6 (east only)	Plaster over cork (with mastic) (RB-19)	Damaged	No	1,500 SF
7	TSI on 4" OD (in chase) (RB-18)	Damaged	Yes	200 LF
	Door gaskets – white rope (RB-38)	Good	Yes	12 doors
10	Window putty (RB-21)	Damaged	No	50 Windows
	9"x9" white tile/mastic (RB-41)	Damaged	No	75 SF
11	TSI (6" OD paper cover) (RB-27)	Damaged	Yes	20 pipes
	Window putty (RB-21)	Damaged	No	50 Windows
12	Window putty (RB-21)	Damaged	No	50 Windows
13	Window putty (RB-21)	Damaged	No	50 Windows
	Roof (surface & flashing)	Undamaged	No	2,000 SF / 200 LF
14	Window Putty (RB-21)	Damaged	No	50 Windows
	Roof (surface) – (RB-R-5)	Undamaged	No	4,000 SF
15	Window Putty (RB-21)	Undamaged	No	50 Windows
	Roof (surface/flashing) (RB-R-9,10)	Undamaged	No	4,500 SF / 250 LF
18	Roof (surface/flashing) (RB-R-7,8)	Undamaged	No	5,000 SF / 50 SF
21/22	Door gaskets – white rope (RB-38)	Undamaged	Yes	12 doors
	Roof (surface & flashing) (RB-R-3,4)	Undamaged	No	7,500 SF / 400 LF
23	Cork mastic – on tank level 2 (RB-9,10)	Damaged	No	500 SF
	Window putty (RB-21)	Undamaged	Yes	50 Windows
25	TSI 4-6" OD (northwest corner – level 2)	Damaged	Yes	2 pipes
	Door gaskets – white rope (RB-38)	Undamaged	Yes	12 doors
Tank farm	None	N/A	N/A	N/A
Stack	None	N/A	N/A	N/A

Note 1- Cork mastic was only detected to be ACM in Building 23 on the water tank. The cork mastic sampled in Buildings 6, 7, 22, and 25 was analyzed to be non-ACM.

Note 2 - The window putty was analyzed to be both ACM and non-ACM at the Property, thus it is recommended that each of these materials be treated as ACM.

Note 3 – approximately 400 LF of ACM gray roof flashing was detected on Building 8 (sample RB-R-12).

The following table outlines material which were analyzed to be non-ACM:

TABLE 3 – NON-ACM SAMPLED AT THE SITE

Building No.	Material (sample no.)	Condition	Friable	Approx. Quantity
5/5A	Kiln firebrick (RB-15)	Damaged	Yes	100 SF
	Plaster over foam (RB-20)	Damaged	No	2,000 SF
	2'x2' ceiling tile (RB-37)	Undamaged	Yes	200 SF
6 (east only)	Cork / cork mastic (RB-3,4)	Damaged	No	1,000 SF
7	Cork / cork mastic (RB-1,2)	Damaged	No	4,000 SF
	Firebrick and debris (RB-26)	Undamaged	No	500 SF
	TSI cover on 16" OD pipe (RB-40)	Undamaged	No	50 SF
10	Ceiling texture (cork) – (RB-16)	Good	Yes	600 SF
	Brown sheet flooring (RB-43)	Damaged	No	250 SF
11	Plaster wall (RB-11)	Damaged	No	5,000 SF
	Cork pipe insulation – 6" OD (RB-23)	Damaged	Yes	50 pipes
12	N/A	N/A	N/A	N/A
13	Sheet rock / joint compound (RB-34)	Undamaged	Yes	2,000 SF
	12"x12" tan tile/mastic (RB-35)	Damaged	No	600 SF
	White sheet flooring (RB-36)	Undamaged	No	30 SF
14	N/A	N/A	N/A	N/A
15	TSI (6" OD Cover) (RB-44)	Undamaged	No	300 LF
18	Maroon flooring (RB-14)	Damaged	No	1,000 SF
	Cork pipe insulation - 6" OD (RB-17)	Good	No	100 LF
	Blue flooring (RB-25)	Damaged	No	1,000 SF
21/22	Cork / cork mastic (RB-5,6)	Damaged	No	5,500 SF
	Green flooring (RB-13)	Damaged	No	500 SF
23	Wood / mastic on 10" OD pipe (RB-28)	Damaged	Yes	10 LF
25	Foam (RB-7)	Good	No	10,000 SF
	Foam mastic (RB-8)	Good	No	10,000 SF
	Red 12"x12" floor / stairs (RB-24)	Damaged	No	5,000 SF
Tank farm	Tank foam insulation (RB-39)	Good	No	15 tanks
	Gray caulking (RB-12)	Good	No	15 tanks
Stack	Fire brick (RB-22)	Damaged	No	2,000 SF

Asbestos is present in the following materials in concentrations less than 1%:

- None

The following material types were not tested at the time of this inspection. These materials should be assumed to contain asbestos until they can be tested.

TABLE 4 – PRESUMED ACM (PACM) OBSERVED AT THE SITE				
Building No.	Material	Condition	Friable	Approx. Quantity
1,2,3,24	Roof (Surface and flashing)	Good	No	25,000 SF
15	TSI (6" O.D.) pipes along ceiling	Good	Yes	200 LF

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

The project involved the interior inspection of Buildings 5/5A, 6 (east side only), 7, 10, 11, 12, 13, 14, 15, 18, 21/22, 23, and 25, including the stack and the tank farm.

The following ACMs were identified at the Site:

- Cork mastic (black and non-friable) was detected only in Building 23 on the water tank on level 2. The remaining observed cork mastic in Buildings 5/5A, 6, 7, 18, 21, and 22 was analyzed to be non-ACM. However, the plaster over the cork mastic in Building 6 was found to be ACM.
- Window putty (gray and non-friable - on original and older windows) – approx. 50 windows on Buildings 10, 11, 12, 13, 14, 15, and 23.
- Rope gaskets (white non-friable around metal door frames) – 12 total doors in Buildings 7, 21, 22, and 25.
- Thermal system insulation (TSI) on pipe insulation in various penetrations (white friable insulation and paper covering) in Buildings 7, 11, and 25.
- 9"x9" white floor tile and mastic – damaged and non-friable (approx. 750 SF) in Building 10.
- Roof surfaces (built up roofing and flashing/mastics) – black and gray and non-friable on Building 8, 13, 14, 15, 18, 21, and 22.

3.2 Recommendations

Based on the results of this investigation, the following is recommended:

- Compliance with the Washington Labor and Industries (L&I) Asbestos Rules, Chapter 296-64 WAC.
- Removal of the identified ACM and PACMs by a State of Washington licensed and qualified asbestos abatement contractor should be conducted, prior to renovation or demolition, which may disturb these materials.
- Notification to Washington L&I at least 10 working days prior to renovation or demolition activities.
- Stop work immediately if unsampled suspect ACMs are found during building renovation or demolition activities.
- Obtain and follow a written ACM work plan outlining the proper removal and disposal of identified ACMs and PACMs.
- The facility owners should notify employees, tenants, contractors, and vendors working in the building of the presence, quantity, and location of identified or assumed ACM.

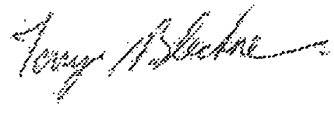
- The areas of the building not inspected during this investigation should be inspected and sampled for asbestos prior to any renovation, demolition, or disturbance of potential ACM.
- The owner should maintain an Operations and Maintenance (O&M) Program for ACM remaining in the facility.
- Air sampling and abatement contractor oversight should be conducted during abatement methods to document proper removal and containment techniques.

4.0 STANDARD OF CARE

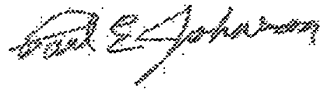
The services performed by Vernon Environmental, Inc. on this project have been conducted with that level of care of skill ordinarily exercised by reputable members of the profession, practicing in the same locality under similar budget and time constraints. No other warranty is expressed or implied.

If you should have any questions or concerns please contact us at (206) 686-2469.

Prepared By:



Terry Bleckner, CIH
Asbestos Inspector



Paul E. Johnson, CIH
Reviewer

APPENDIX A

LABORATORY RESULTS & CHAIN OF CUSTODY

BATCH ID
2608899.00

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1678
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

Page 1 of 3

NVL LABS

Client Ethan Construction, LLC
Street 3100 Airport Way South
Seattle, WA 98134
Project Manager Joseph L. Jackson
Project Location Ranier Brewery

NVL Batch Number
Client Job Number
Total Samples
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other	
☑ Asbestos Bulk	☑ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM Bulk		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify)
☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RB-01-A	CORK	
2		B	CORK	
3		C	CORK	
4		02-A	CORK MASTIC	
5		B	"	
6		C	"	
7		03-A	CORK	
8		B	CORK	
9		C	CORK	
10		04-A	CORK MASTIC	
11		B	"	
12		C	"	
13		05-A	CORK	
14		B	CORK	
15		C	CORK	

	Print Below	Sign Below	Company	Date	Time
Sampled by	Terry Bledsoe		EVE	7/10/06	5pm
Relinquished by					
Received by	N-Ramerman		NVL	07/11/06	15.15
Analyzed by	L MacNair		NVL	07.13.06	06:50
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

BATCH ID
2608899.00

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

Pg. 2 of 13

NVL LABS

Client Ethan Construction, LLC
Street 3100 Airport Way South
Seattle, WA 98134
Project Manager Joseph L. Jackson
Project Location Ranier Brewery

NVL Batch Number
Client Job Number
Total Samples
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk ☐ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RR - 06 - A	CORK MASTIC	
2		B	"	
3		C	"	
4		07 - A	BLACK FOAM	
5		B	"	
6		C	"	
7		08 - A	FOAM MASTIC	
8		B	"	
9		C	"	
10		09 - A	CORK	
11		B	"	
12		C	"	
13		10 - A	CORK MASTIC	
14		B	"	
15		C	"	

	Print Below	Sign Below	Company	Date	Time
Sampled by	T. Bledsoe		EVE	7/10/06	5pm
Relinquished by					
Received by	N. Ramerman		NVL	07/11/06	15.15
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

NVL Laboratories, Inc.
4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608899.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054462 **Client Sample #: RB-01-A**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 2	Description: Black asphaltic material	Asphalt/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown soft material	Cork	None Detected ND	None Detected ND

Lab ID: 26054463 **Client Sample #: RB-01-B**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 2	Description: Black asphaltic material	Asphalt/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown soft material	Cork	None Detected ND	None Detected ND

Lab ID: 26054464 **Client Sample #: RB-01-C**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 2	Description: Black asphaltic material	Asphalt/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown soft material	Cork	None Detected ND	None Detected ND

Lab ID: 26054465 **Client Sample #: RB-02-A**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

NVL Laboratories, Inc.
4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608899.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 1	Description: Black asphaltic material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Asphalt/binder	None Detected	ND	None Detected	ND
Lab ID: 26054466	**Client Sample #: RB-02-B**				
Location: Rainier Brewery					
Layer 1 of 1	Description: Black asphaltic material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Asphalt/binder	None Detected	ND	None Detected	ND
Lab ID: 26054467	**Client Sample #: RB-02-C**				
Location: Rainier Brewery					
Layer 1 of 2	Description: Black asphaltic material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Asphalt/binder	None Detected	ND	None Detected	ND
Layer 2 of 2	Description: Brown soft material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Cork	None Detected	ND	None Detected	ND
Lab ID: 26054468	**Client Sample #: RB-03-A**				
Location: Rainier Brewery					
Layer 1 of 2	Description: Black asphaltic material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Asphalt/binder	None Detected	ND	None Detected	ND
Layer 2 of 2	Description: Brown soft material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Cork	None Detected	ND	None Detected	ND
Lab ID: 26054469	**Client Sample #: RB-03-B**				
Location: Rainier Brewery					

Sampled by: Client

Analyzed by: Lyudmila Manzar Date: 07/13/2006 DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

NVL Laboratories, Inc.
4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2606899.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/binder	None Detected	ND	**None Detected ND**
Layer 2 of 2	Description: Brown soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Cork	None Detected	ND	**None Detected ND**

Lab ID: 26054470 **Client Sample #: RB-03-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/binder	None Detected	ND	**Chrysotile 2%**
Layer 2 of 2	Description: Brown soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Cork	None Detected	ND	**None Detected ND**

Lab ID: 26054471 **Client Sample #: RB-04-A**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/binder	None Detected	ND	**None Detected ND**

Lab ID: 26054472 **Client Sample #: RB-04-B**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/binder	None Detected	ND	**None Detected ND**

Lab ID: 26054473 **Client Sample #: RB-04-C**
Location: Rainier Brewery

Sampled by: Client

Analyzed by: Lyudmila Manzar Date: 07/13/2006 DRAFT

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608899.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 1	Description: Black asphaltic material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Asphalt/binder	None Detected	ND	None Detected	ND
Lab ID: 26054474	**Client Sample #: RB-05-A**				
Location: Rainier Brewery					
Layer 1 of 3	Description: Gray sandy/brittle material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Binder/Filler, Sand	None Detected	ND	None Detected	ND
Layer 2 of 3	Description: Black asphaltic material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Asphalt/binder	None Detected	ND	None Detected	ND
Layer 3 of 3	Description: Brown soft material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Cork	None Detected	ND	None Detected	ND
Lab ID: 26054475	**Client Sample #: RB-05-B**				
Location: Rainier Brewery					
Layer 1 of 2	Description: Black asphaltic material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Asphalt/binder	None Detected	ND	None Detected	ND
Layer 2 of 2	Description: Brown soft material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Cork	None Detected	ND	None Detected	ND
Lab ID: 26054476	**Client Sample #: RB-05-C**				
Location: Rainier Brewery					

Sampled by: Client

Analyzed by: Lyudmila Manzar Date: 07/13/2006 DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608899.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 2	Description: Black asphaltic material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Asphalt/binder	None Detected	ND	None Detected	ND
Layer 2 of 2	Description: Brown soft material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Cork	None Detected	ND	None Detected	ND

Lab ID: 26054477 **Client Sample #: RB-06-A**
Location: Rainier Brewery

Layer 1 of 2	Description: Gray sandy material (on wood)				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Binder/Filler, Sand	Cellulose	3%	None Detected	ND
Layer 2 of 2	Description: Black asphaltic mastic				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Asphalt/binder	None Detected	ND	None Detected	ND

Lab ID: 26054478 **Client Sample #: RB-06-B**
Location: Rainier Brewery
Comments: Unable to separate mastics for analysis

Layer 1 of 1	Description: Gray sandy material with asphalt mastic (on wood)				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Binder/Filler, Asphalt/binder, Sand	Cellulose	3%	None Detected	ND

Lab ID: 26054479 **Client Sample #: RB-06-C**
Location: Rainier Brewery
Comments: Unable to separate mastics for analysis

Layer 1 of 1	Description: Gray sandy material with asphalt mastic (on wood)				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Binder/Filler, Asphalt/binder, Sand	Cellulose	3%	None Detected	ND

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608899.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054480	**Client Sample #: RB-07-A**		
Location: Rainier Brewery			
Layer 1 of 1	Description: Black brittle foamy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND
Lab ID: 26054481	**Client Sample #: RB-07-B**		
Location: Rainier Brewery			
Layer 1 of 1	Description: Black brittle foamy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND
Lab ID: 26054482	**Client Sample #: RB-07-C**		
Location: Rainier Brewery			
Layer 1 of 1	Description: Black brittle foamy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND
Lab ID: 26054483	**Client Sample #: RB-08-A**		
Location: Rainier Brewery			
Layer 1 of 3	Description: Gray cementitious material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Cement/binder, Mineral grains	None Detected ND	None Detected ND
Layer 2 of 3	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND
Layer 3 of 3	Description: Black brittle foamy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND

Sampled by: Client

Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608899.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/binder	None Detected	ND	None Detected ND
Layer 2 of 2	Description: Brown soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Cork	None Detected	ND	None Detected ND

Lab ID: 26054488 **Client Sample #: RB-09-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/binder	None Detected	ND	None Detected ND
Layer 2 of 2	Description: Brown soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Cork	None Detected	ND	None Detected ND

Lab ID: 26054489 **Client Sample #: RB-10-A**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/binder	None Detected	ND	Chrysotile 2%
Layer 2 of 2	Description: Brown soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Cork	None Detected	ND	None Detected ND

Lab ID: 26054490 **Client Sample #: RB-10-B**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608899.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054484 **Client Sample #: RB-08-B**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 2	Description: Gray cementitious material	Cement/binder, Mineral grains	None Detected ND	None Detected ND
Layer 2 of 2	Description: Black asphaltic material	Asphalt/binder	None Detected ND	None Detected ND

Lab ID: 26054485 **Client Sample #: RB-08-C**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 2	Description: Gray cementitious material	Cement/binder, Mineral grains	None Detected ND	None Detected ND
Layer 2 of 2	Description: Black asphaltic material	Asphalt/binder	None Detected ND	None Detected ND

Lab ID: 26054486 **Client Sample #: RB-09-A**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 2	Description: Black asphaltic material	Asphalt/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown soft material	Cork	None Detected ND	None Detected ND

Lab ID: 26054487 **Client Sample #: RB-09-B**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608899.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/binder	None Detected	ND	Chrysotile 2%
Layer 2 of 2	Description: Brown soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Cork	None Detected	ND	None Detected ND

Lab ID: 26054491 **Client Sample #: RB-10-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/binder	None Detected	ND	Chrysotile 2%
Layer 2 of 2	Description: Brown soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Cork	None Detected	ND	None Detected ND

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

BATCH ID
2608900.00

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

Pg 3 of 13

NVL LABS

Client: Ethan Construction, LLC
Street: 3100 Airport Way South
Seattle, WA 98134
Project Manager: Joseph L. Jackson
Project Location: Ranier Brewery

NVL Batch Number:
Client Job Number:
Total Samples:
Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs

Email address: joseph@arieldevelopment.com
Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other	
☐ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM Bulk		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RB-11-A	PLASTER WALL	
2		B	"	
3		C	"	
4		12-A	[redacted] TANK CRUK.	
5		12-B	"	
6		C	"	
7		13-A	GREEN FLOORING	
8		B	"	
9		C	"	
10		14-A	MAROON FLOORING	
11		B	"	
12		C	"	
13		15-A	WHITE KILN BRICK	
14		-B	"	
15		-C	"	

	Print Below	Sign Below	Company	Date	Time
Sampled by	BRecker		EVI	7-10-06	5 pm.
Relinquished by					
Received by	N. Ramerman		NVL	07/11/06	15.15
Analyzed by	Nadia		NVL	7/13/06	3:10PM
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

e-mailed by Nadia NVL 7.13.06

BATCH ID
2608900.00

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

NVL LABS

Client: Ethan Construction, LLC
Street: 3100 Airport Way South
Seattle, WA 98134
Project Manager: Joseph L. Jackson
Project Location: Ranier Brewery

NVL Batch Number:
Client Job Number:
Total Samples:
Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address: joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other	
☐ Asbestos Bulk	☐ PCM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM Bulk		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis: ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RB-16-A	CORK ceiling Texture	
2		B	"	
3		C	"	
4		17-A	TSI - CORK INS / TAR WRAP - 6"	
5		B	"	
6		C	"	
7		18-A	TSI - 4" WHITE INSULATION	
8		B	"	
9		C	"	
10		19-A	PLASTER	
11		B	"	
12		C	"	
13		20-A	PLASTER	
14		B	"	
15		C	"	

	Print Below	Sign Below	Company	Date	Time
Sampled by	B/Ellene		EVI	7/10/06	5pm
Relinquished by					
Received by	N. Ramerman		NVL	07/11/06	15.15
Analyzed by	Nadia		NVL	7/13/06	3:10PM
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

e-mailed by Nadia NVL 7.13.06

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608900.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054492 **Client Sample #: RB-11-A**
Location: Rainier Brewery

Layer 1 of 3	Description: Off-white chalky material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Fine particles, Gypsum/binder, Paint	None Detected	ND	None Detected ND
Layer 2 of 3	Description: White /tan brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Fine particles, Binder/Filler, Mineral grains Rust, Perlite	None Detected	ND	None Detected ND
Layer 3 of 3	Description: Multi-layered paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Paint	None Detected	ND	None Detected ND

Lab ID: 26054493 **Client Sample #: RB-11-B**
Location: Rainier Brewery

Layer 1 of 2	Description: White brittle material with layered paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Fine particles, Binder/Filler, Mineral grains Paint	None Detected	ND	None Detected ND
Layer 2 of 2	Description: Light gray brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Fine particles, Binder/Filler, Mineral grains	None Detected	ND	None Detected ND

Lab ID: 26054494 **Client Sample #: RB-11-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Off-white chalky material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Fine particles, Gypsum/binder, Paint	None Detected	ND	None Detected ND

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/13/2006

DRAFT

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www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608900.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 2 of 2	**Description:** White/tan brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral grains Perlite, Rust	None Detected ND	None Detected ND

Lab ID: 26054495 **Client Sample #: RB-12-A**
Location: Rainier Brewery

Layer 1 of 2	**Description:** Gray rubbery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Rubber/binder, Paint	None Detected ND	None Detected ND
Layer 2 of 2	**Description:** Trace gray brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mineral grains, Mica	None Detected ND	None Detected ND

Lab ID: 26054496 **Client Sample #: RB-12-B**
Location: Rainier Brewery

Layer 1 of 2	**Description:** Gray rubbery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Rubber/binder, Paint	None Detected ND	None Detected ND
Layer 2 of 2	**Description:** Trace gray brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mineral grains, Mica	None Detected ND	None Detected ND

Lab ID: 26054497 **Client Sample #: RB-12-C**
Location: Rainier Brewery

Layer 1 of 2	**Description:** Gray rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Rubber/binder	None Detected ND	None Detected ND

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk **Date:** 07/13/2006

DRAFT

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Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608900.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 2 of 2	**Description:** Trace gray brittle material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mineral grains, Paint	None Detected ND	**None Detected ND**

Lab ID: 26054498 **Client Sample #: RB-13-A**
Location: Rainier Brewery

Layer 1 of 1	**Description:** Gray hard brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral/binder	None Detected ND	**None Detected ND**

Lab ID: 26054499 **Client Sample #: RB-13-B**
Location: Rainier Brewery

Layer 1 of 1	**Description:** Gray hard brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral/binder	None Detected ND	**None Detected ND**

Lab ID: 26054500 **Client Sample #: RB-13-C**
Location: Rainier Brewery

Layer 1 of 1	**Description:** Gray hard brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral/binder	None Detected ND	**None Detected ND**

Lab ID: 26054501 **Client Sample #: RB-14-A**
Location: Rainier Brewery

Layer 1 of 1	**Description:** Maroon hard brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral/binder	None Detected ND	**None Detected ND**

Lab ID: 26054502 **Client Sample #: RB-14-B**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk **Date:** 07/13/2006

DRAFT

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Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608900.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 1	Description: Maroon hard brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Fine particles, Binder/Filler, Mineral/binder	None Detected ND	None Detected ND
Lab ID: 26054503	**Client Sample #: RB-14-C**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Maroon hard brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Fine particles, Binder/Filler, Mineral/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Multi-colored paint		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Paint	None Detected ND	None Detected ND
Lab ID: 26054504	**Client Sample #: RB-15-A**		
Location: Rainier Brewery			
Layer 1 of 1	Description: Light tan brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Binder/Filler	None Detected ND	None Detected ND
Lab ID: 26054505	**Client Sample #: RB-15-B**		
Location: Rainier Brewery			
Layer 1 of 1	Description: Light tan brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Binder/Filler	None Detected ND	None Detected ND
Lab ID: 26054506	**Client Sample #: RB-15-C**		
Location: Rainier Brewery			
Layer 1 of 1	Description: Light tan brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Binder/Filler	None Detected ND	None Detected ND

Sampled by: Client

Analyzed by: Nadia Prysyazhnyuk Date: 07/13/2006

DRAFT

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Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608900.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054507 **Client Sample #: RB-16-A**
Location: Rainier Brewery

Layer 1 of 1	Description: Brown soft material with paint				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Cork, Paint	None Detected	ND	None Detected	ND

Lab ID: 26054508 **Client Sample #: RB-16-B**
Location: Rainier Brewery

Layer 1 of 2	Description: Brown soft material with paint				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Cork, Paint	None Detected	ND	None Detected	ND
Layer 2 of 2	Description: Off-white compacted powdery material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Fine particles, Binder/Filler	None Detected	ND	None Detected	ND

Lab ID: 26054509 **Client Sample #: RB-16-C**
Location: Rainier Brewery

Layer 1 of 3	Description: Brown soft material with paint				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Cork, Paint	None Detected	ND	None Detected	ND
Layer 2 of 3	Description: Off-white compacted powdery material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Fine particles, Binder/Filler	None Detected	ND	None Detected	ND
Layer 3 of 3	Description: Trace gray brittle material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type:	%
	Fine particles, Binder/Filler, Mineral grains	Cellulose	1%	None Detected	ND

Lab ID: 26054510 **Client Sample #: RB-17-A**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk **Date:** 07/13/2006

DRAFT

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Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608900.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 2	**Description:** Brown soft material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Cork, Paint	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Mastic/binder	Cellulose 1%	**None Detected ND**

Lab ID: 26054511 **Client Sample #: RB-17-B**
Location: Rainier Brewery

Layer 1 of 2	**Description:** Brown soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Cork	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Mastic/binder	Cellulose 1%	**None Detected ND**

Lab ID: 26054512 **Client Sample #: RB-17-C**
Location: Rainier Brewery

Layer 1 of 2	**Description:** Trace brown soft material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Cork, Paint	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Black woven asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Asphalt/binder	Cellulose 95%	**None Detected ND**

Lab ID: 26054513 **Client Sample #: RB-18-A**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/13/2006

DRAFT

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608900.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 1	**Description:** White fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler	None Detected ND	**Amosite 15%**
			Chrysotile 10%

Lab ID: 26054514 **Client Sample #: RB-18-B**
Location: Rainier Brewery

Layer 1 of 1	**Description:** White fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler	None Detected ND	**Amosite 17%**
			Chrysotile 10%

Lab ID: 26054515 **Client Sample #: RB-18-C**
Location: Rainier Brewery

Layer 1 of 1	**Description:** White fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler	None Detected ND	**Amosite 17%**
			Chrysotile 10%

Lab ID: 26054516 **Client Sample #: RB-19-A**
Location: Rainier Brewery

Layer 1 of 3	**Description:** White brittle material with paint and silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Paint, Metallic paint	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Brown brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral grains	None Detected ND	**Chrysotile 7%**

Sampled by: Client

Analyzed by: Nadia Prysyazhnyuk **Date:** 07/13/2006

DRAFT

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Bulk Asbestos Fibers Analysis

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Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608900.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 3 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Mastic/binder	None Detected ND	**None Detected ND**

Lab ID: 26054517 **Client Sample #: RB-19-B**
Location: Rainier Brewery

Layer 1 of 3	**Description:** White brittle material with paint and silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Paint, Metallic paint	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Brown brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral grains	None Detected ND	**Chrysotile 7%**
Layer 3 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Mastic/binder	None Detected ND	**None Detected ND**

Lab ID: 26054518 **Client Sample #: RB-19-C**
Location: Rainier Brewery

Layer 1 of 3	**Description:** White brittle material with paint and silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Paint, Metallic paint	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Brown brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral grains	None Detected ND	**Chrysotile 7%**
Layer 3 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Mastic/binder	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk **Date:** 07/13/2006

DRAFT

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Client: Ethan Construction
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Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608900.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054519 **Client Sample #: RB-20-A**
Location: Rainier Brewery

Layer 1 of 4	Description: White brittle material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Binder/Filler, Mineral grains Paint	Wollastonite 2%	None Detected ND
Layer 2 of 4	Description: White brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Binder/Filler, Perlite Mineral grains	None Detected ND	None Detected ND
Layer 3 of 4	Description: Black woven asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Asphalt/binder	Glass fibers 97%	None Detected ND
Layer 4 of 4	Description: Black brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Synthetic/binder	None Detected ND	None Detected ND

Lab ID: 26054520 **Client Sample #: RB-20-B**
Location: Rainier Brewery

Layer 1 of 2	Description: White brittle material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Binder/Filler, Mineral grains Paint	Wollastonite 2%	None Detected ND
Layer 2 of 2	Description: Black brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Synthetic/binder	None Detected ND	None Detected ND

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/13/2006

DRAFT

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Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608900.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054521 **Client Sample #: RB-20-C**
Location: Rainier Brewery

Layer 1 of 2	**Description:** White brittle material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral grains	Wollastonite 2%	**None Detected ND**
	Paint		
Layer 2 of 2	**Description:** White brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Perlite	None Detected ND	**None Detected ND**
	Mineral grains		

Sampled by: Client

Analyzed by: Nadia Prysyazhnyuk **Date:** 07/13/2006

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BATCH ID
2608901.00

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CHAIN of CUSTODY SAMPLE LOG

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NVL LABS

Client Ethan Construction, LLC
Street 3100 Airport Way South
Seattle, WA 98134
Project Manager Joseph L. Jackson
Project Location Ranier Brewery

NVL Batch Number
Client Job Number
Total Samples
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify)
☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RB-21-A	Grey WINDOW Putty	
2		B	"	
3		C	"	
4		22-A	WHITE FIRE BRICK	
5		B	"	
6		C	"	
7		23-A	TSI - 6". CORK MASTIC	
8		B	"	
9		C	"	
10		24-A	RED FLOORING (STAIRS)	
11		B	"	
12		C	"	
13		25-A	BLUE FLOORING	
14		B	"	
15		C	"	

	Print Below	Sign Below	Company	Date	Time
Sampled by	Blecker		EVI	7/10/06	5pm
Relinquished by					
Received by	N. Ramerman		NVL	07/10/06	15:15
Analyzed by	L Mantak	C Thurston	NVL	07.13.06	11:30
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

BATCH ID
2608901.00

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

NVL LABS

Client Ethan Construction, LLC
Street 3100 Airport Way South
Seattle, WA 98134
Project Manager Joseph L. Jackson
Project Location Ranier Brewery

NVL Batch Number
Client Job Number
Total Samples
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other	
☒ Asbestos Bulk	☒ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM Bulk		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RR-26-A	WHITE FIRE BRICK (DEBRIS)	
2		B	"	
3		C	"	
4		27-A	TSI - 6" - white ins - pipe END	
5		B	"	
6		C	"	
7		28-A	WOOD TSI MARKED - 10" LINE	
8		B	"	
9		C	"	
10		29-A	CORK + MASTIC	
11		B	"	
12		C	"	
13		30-A	GREY WINDOW PUTTY	
14		B	"	
15		C	"	

	Print Below	Sign Below	Company	Date	Time
Sampled by	Blackmer		EVE	7/10/06	5 PM
Relinquished by					
Received by	N-Ramerwa		NVL	07/11/06	15:15
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

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4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608901.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054522 **Client Sample #: RB-21-A**
Location: Rainier Brewery

Layer 1 of 1	Description: Gray putty material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Binder/Filler, Paint	None Detected ND	Chrysotile 2%

Lab ID: 26054523 **Client Sample #: RB-21-B**
Location: Rainier Brewery

Layer 1 of 1	Description: Gray putty material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Binder/Filler, Paint	None Detected ND	Chrysotile 2%

Lab ID: 26054524 **Client Sample #: RB-21-C**
Location: Rainier Brewery

Layer 1 of 1	Description: Gray putty material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Binder/Filler, Paint	None Detected ND	Chrysotile 2%

Lab ID: 26054525 **Client Sample #: RB-22-A**
Location: Rainier Brewery

Layer 1 of 2	Description: White powdery material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Mineral/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
	Mineral/binder	None Detected ND	None Detected ND

Lab ID: 26054526 **Client Sample #: RB-22-B**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP #102083

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608901.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 3	Description: White powdery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mineral/binder	None Detected ND	None Detected ND
Layer 2 of 3	Description: Brown brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mineral/binder	None Detected ND	None Detected ND
Layer 3 of 3	Description: Gray sandy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Sand	None Detected ND	None Detected ND

Lab ID: 26054527 **Client Sample #: RB-22-C**
Location: Rainier Brewery

Layer 1 of 3	Description: White powdery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mineral/binder	None Detected ND	None Detected ND
Layer 2 of 3	Description: Brown brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mineral/binder	None Detected ND	None Detected ND
Layer 3 of 3	Description: Gray sandy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Sand	None Detected ND	None Detected ND

Lab ID: 26054528 **Client Sample #: RB-23-A**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608901.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 2 of 2	Description: Brown soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Cork	None Detected ND	None Detected ND
Lab ID: 26054529	**Client Sample #: RB-23-B**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Black asphaltic material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Paint	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Cork	None Detected ND	None Detected ND
Lab ID: 26054530	**Client Sample #: RB-23-C**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Black asphaltic material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Paint	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Cork	None Detected ND	None Detected ND
Lab ID: 26054531	**Client Sample #: RB-24-A**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Red tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/binder	None Detected ND	None Detected ND

Sampled by: Client

Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2606901.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 2 of 2	Description: Tan brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/binder	None Detected ND	None Detected ND
Lab ID: 26054532	**Client Sample #: RB-24-B**		
Location: Rainier Brewery			
Comments: No mastic present			
Layer 1 of 1	Description: Red tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/binder, Mineral grains	None Detected ND	None Detected ND
Lab ID: 26054533	**Client Sample #: RB-24-C**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Red tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Tan brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Mastic/binder	None Detected ND	None Detected ND
Lab ID: 26054534	**Client Sample #: RB-25-A**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Gray thin brittle surface		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Mineral grains	None Detected ND	None Detected ND
Layer 2 of 2	Description: Gray cementitious material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Cement/binder, Mineral grains	Cellulose 2%	None Detected ND

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608901.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054535 **Client Sample #: RB-25-B**
Location: Rainier Brewery

Layer 1 of 2	Description: Gray thin brittle surface		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Mineral grains	None Detected ND	None Detected ND
Layer 2 of 2	Description: Gray cementitious material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Cement/binder, Mineral grains	Cellulose 2%	None Detected ND

Lab ID: 26054536 **Client Sample #: RB-25-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Gray thin brittle surface		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Mineral grains	None Detected ND	None Detected ND
Layer 2 of 2	Description: Gray cementitious material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Cement/binder, Mineral grains	Cellulose 2%	None Detected ND

Lab ID: 26054537 **Client Sample #: RB-26-A**
Location: Rainier Brewery

Layer 1 of 1	Description: Light gray brittle sandy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Sand, Paint	None Detected ND	None Detected ND

Lab ID: 26054538 **Client Sample #: RB-26-B**
Location: Rainier Brewery

Layer 1 of 1	Description: Light gray brittle sandy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Sand, Paint	None Detected ND	None Detected ND

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608901.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054539 **Client Sample #: RB-26-C**
Location: Rainier Brewery

Layer 1 of 1 Description: Light gray brittle sandy material

Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %	
Binder/Filler, Sand, Paint	None Detected	ND	None Detected	ND

Lab ID: 26054540 **Client Sample #: RB-27-A**
Location: Rainier Brewery

Layer 1 of 1 Description: Beige fibrous powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %	
Binder/Filler	None Detected	ND	Chrysotile	25%
			Crocidolite	3%
			Amosite	2%

Lab ID: 26054541 **Client Sample #: RB-27-B**
Location: Rainier Brewery

Layer 1 of 1 Description: Beige fibrous powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %	
Binder/Filler	None Detected	ND	Chrysotile	25%
			Crocidolite	3%
			Amosite	2%

Lab ID: 26054542 **Client Sample #: RB-27-C**
Location: Rainier Brewery

Layer 1 of 1 Description: Beige fibrous powdery material

Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %	
Binder/Filler	None Detected	ND	Chrysotile	25%
			Crocidolite	3%
			Amosite	2%

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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NVLAP #102083

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 26068901.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054543 **Client Sample #: RB-28-A**
Location: Rainier Brewery

Layer 1 of 2	Description: White and green textured paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Paint	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles	Hair 95%	None Detected ND

Lab ID: 26054544 **Client Sample #: RB-28-B**
Location: Rainier Brewery

Layer 1 of 2	Description: White and green textured paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Paint	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles	Hair 95%	None Detected ND

Lab ID: 26054545 **Client Sample #: RB-28-C**
Location: Rainier Brewery

Layer 1 of 2	Description: White and green textured paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Paint	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles	Hair 95%	None Detected ND

Lab ID: 26054546 **Client Sample #: RB-29-A**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006 DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608901.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/binder	None Detected	ND	None Detected ND
Layer 2 of 2	Description: Brown soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Cork	None Detected	ND	None Detected ND

Lab ID: 26054547 **Client Sample #: RB-29-B**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/binder	None Detected	ND	None Detected ND
Layer 2 of 2	Description: Brown soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Cork	None Detected	ND	None Detected ND

Lab ID: 26054548 **Client Sample #: RB-29-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/binder	None Detected	ND	None Detected ND
Layer 2 of 2	Description: Brown soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Cork	None Detected	ND	None Detected ND

Lab ID: 26054549 **Client Sample #: RB-30-A**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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NVL Laboratories, Inc.
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Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608901.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 1	Description: Gray putty material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Paint	None Detected ND	None Detected ND

Lab ID: 26054550 **Client Sample #: RB-30-B**
Location: Rainier Brewery

Layer 1 of 1	Description: Gray putty material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Paint	None Detected ND	None Detected ND

Lab ID: 26054551 **Client Sample #: RB-30-C**
Location: Rainier Brewery

Layer 1 of 1	Description: Gray putty material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Paint	None Detected ND	None Detected ND

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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BATCH ID
2608902.00

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

NVL LABS

Client Ethan Construction, LLC
Street 3100 Airport Way South
Seattle, WA 98134
Project Manager Joseph L. Jackson
Project Location Ranier Brewery

NVL Batch Number
Client Job Number
Total Samples
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address joseph@arleidevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☐ Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RB-31-A	PLASTER	
2		B	"	
3		C	"	
4		32-A	CONCRETE (DEBRIS)	
5		B	"	
6		C	"	
7		33 A	ROOF	
8		B		
9		C		
10		34 A		
11		B		
12		C		
13		35 A		
14		B		
15		C		

	Print Below	Sign Below	Company	Date	Time
Sampled by	B Peterson		EVE	7/10/06	5pm
Relinquished by					
Received by	N. Ramirez		NVL	7/11/06	15:15
Analyzed by	L. Montalvo		NVL	07.13.06	09:09
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

BATCH ID
2608902.00

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CHAIN of Custody
SAMPLE LOG

NVL LABS

Client Ethan Construction, LLC
Street 3100 Airport Way South
Seattle, WA 98134
Project Manager Joseph L. Jackson
Project Location Ranier Brewery

NVL Batch Number
Client Job Number
Total Samples
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other		
☒ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM Bulk			

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis	☐ Fiberglass ☐ Silica	☐ Nuisance Dust ☐ Respirable Dust	☐ Other (Specify)	

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RB-36-A		
2		B		
3		C		
4		37-A		
5		B		
6		C		
7		38-A		
8		B		
9		C		
10		39-A		
11		B		
12		C		
13		40-A		
14		B		
15		C		

	Print Below	Sign Below	Company	Date	Time
Sampled by	B LEICHNER		EVE	7/10/06	5pm
Relinquished by					
Received by	A. Reimerson		NVL	07/11/06	15.15
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

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Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608902.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054552 **Client Sample #: RB-31-A**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 1	Description: Light gray sandy material with paint	Binder/Filler, Sand, Paint	None Detected ND	None Detected ND

Lab ID: 26054553 **Client Sample #: RB-31-B**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 1	Description: Light gray sandy material with paint	Binder/Filler, Sand, Paint	None Detected ND	None Detected ND

Lab ID: 26054554 **Client Sample #: RB-31-C**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 1	Description: Light gray sandy material	Binder/Filler, Sand, Paint	None Detected ND	None Detected ND

Lab ID: 26054555 **Client Sample #: RB-32-A**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 4	Description: Brown brittle material with paint	Binder/Filler, Mineral grains, Paint	None Detected ND	Chrysotile 5%
Layer 2 of 4	Description: Black asphaltic material	Asphalt/binder	None Detected ND	None Detected ND
Layer 3 of 4	Description: Brown soft material	Cork	None Detected ND	None Detected ND

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608902.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 4 of 4	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND
Lab ID: 26054556	**Client Sample #: RB-32-B**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Cork	None Detected ND	None Detected ND
Lab ID: 26054557	**Client Sample #: RB-32-C**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Cork	None Detected ND	None Detected ND
Lab ID: 26054558	**Client Sample #: RB-33-A**		
Location: Rainier Brewery			
Layer 1 of 1	Description: Gray putty material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Paint	None Detected ND	None Detected ND
Lab ID: 26054559	**Client Sample #: RB-33-B**		
Location: Rainier Brewery			

Sampled by: Client

Analyzed by: Lyudmila Manzar Date: 07/13/2006 DRAFT

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Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 1	Description: Gray putty material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Paint	None Detected ND	None Detected ND
Lab ID: 26054560	Client Sample #: RB-33-C		
Location: Rainier Brewery			
Layer 1 of 1	Description: Gray putty material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Paint	None Detected ND	None Detected ND
Lab ID: 26054561	Client Sample #: RB-34-A		
Location: Rainier Brewery			
Layer 1 of 1	Description: Off-white compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous binder, Perlite, Paint	None Detected ND	None Detected ND
Lab ID: 26054562	Client Sample #: RB-34-B		
Location: Rainier Brewery			
Layer 1 of 1	Description: Off-white chalky material with paper and paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Gypsum/binder, Paint	Cellulose 40%	None Detected ND
Lab ID: 26054563	Client Sample #: RB-34-C		
Location: Rainier Brewery			
Layer 1 of 2	Description: Off-white compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous binder, Paint	None Detected ND	None Detected ND
Layer 2 of 2	Description: Off-white chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Gypsum/binder	Cellulose 65%	None Detected ND

Sampled by: Client

Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054564 **Client Sample #: RB-35-A**
Location: Rainier Brewery

Layer 1 of 2	Description: Beige tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Vinyl/binder	None Detected	ND	None Detected ND
Layer 2 of 2	Description: Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/binder	None Detected	ND	None Detected ND

Lab ID: 26054565 **Client Sample #: RB-35-B**
Location: Rainier Brewery

Layer 1 of 2	Description: Beige tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Vinyl/binder	None Detected	ND	None Detected ND
Layer 2 of 2	Description: Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/binder	None Detected	ND	None Detected ND

Lab ID: 26054566 **Client Sample #: RB-35-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Beige tile			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Vinyl/binder	None Detected	ND	None Detected ND
Layer 2 of 2	Description: Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/binder	None Detected	ND	None Detected ND

Lab ID: 26054567 **Client Sample #: RB-36-A**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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Batch #: 2608902.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 2	Description: Off-white sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/binder, Synthetic/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Light gray backing		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler	Glass fibers 7%	None Detected ND

Lab ID: 26054568 **Client Sample #: RB-36-B**
Location: Rainier Brewery

Layer 1 of 2	Description: Off-white sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/binder, Synthetic/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Light gray backing		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler	Glass fibers 7%	None Detected ND

Lab ID: 26054569 **Client Sample #: RB-36-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Off-white sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Vinyl/binder, Synthetic/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Light gray backing		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler	Glass fibers 7%	None Detected ND

Lab ID: 26054570 **Client Sample #: RB-37-A**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608902.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 1 of 1	Description: Light gray compressed fibrous material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Perlite, Paint	Cellulose 60%	None Detected ND
		Glass fibers 10%	

Lab ID: 26054571 **Client Sample #: RB-37-B**
Location: Rainier Brewery

Layer 1 of 1	Description: Light gray compressed fibrous material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Perlite, Paint	Cellulose 60%	None Detected ND
		Glass fibers 10%	

Lab ID: 26054572 **Client Sample #: RB-37-C**
Location: Rainier Brewery

Layer 1 of 1	Description: Light gray compressed fibrous material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Perlite, Paint	Cellulose 60%	None Detected ND
		Glass fibers 10%	

Lab ID: 26054573 **Client Sample #: RB-38-A**
Location: Rainier Brewery

Layer 1 of 1	Description: Beige fibrous woven material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Paint	Cellulose 45%	Chrysotile 45%

Lab ID: 26054574 **Client Sample #: RB-38-B**
Location: Rainier Brewery

Layer 1 of 1	Description: Beige fibrous woven material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Paint	Cellulose 45%	Chrysotile 45%

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Lab ID: 26054575 **Client Sample #: RB-38-C**
Location: Rainier Brewery

Layer 1 of 1	Description: Beige fibrous woven material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Paint	Cellulose 45%	Chrysotile 45%

Lab ID: 26054576 **Client Sample #: RB-39-A**
Location: Rainier Brewery

Layer 1 of 2	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Paint	None Detected ND	None Detected ND
Layer 2 of 2	Description: Yellow spongy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Synthetic/binder	None Detected ND	None Detected ND

Lab ID: 26054577 **Client Sample #: RB-39-B**
Location: Rainier Brewery

Layer 1 of 2	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Paint	None Detected ND	None Detected ND
Layer 2 of 2	Description: Yellow spongy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Synthetic/binder	None Detected ND	None Detected ND

Lab ID: 26054578 **Client Sample #: RB-39-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Paint	None Detected ND	None Detected ND

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006 DRAFT

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Project Location: Rainier Brewery

Batch #: 2608902.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 2 of 2	Description: Yellow spongy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Synthetic/binder	None Detected ND	None Detected ND

Lab ID: 26054579 **Client Sample #: RB-40-A**
Location: Rainier Brewery

Layer 1 of 3	Description: White fibrous woven material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Paint	Cellulose 65%	None Detected ND
Layer 2 of 3	Description: Off-white fibrous material with foil		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Metal foil	Cellulose 35%	None Detected ND
		Glass fibers 7%	
Layer 3 of 3	Description: Clear soft adhesive with beige spongy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Adhesive/binder, Synthetic/binder	None Detected ND	None Detected ND

Lab ID: 26054580 **Client Sample #: RB-40-B**
Location: Rainier Brewery

Layer 1 of 3	Description: White fibrous woven material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Paint	Cellulose 65%	None Detected ND
Layer 2 of 3	Description: Off-white fibrous material with foil		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Metal foil	Cellulose 35%	None Detected ND
		Glass fibers 7%	

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608902.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 30
Method: EPA/600R-93/116

Layer 3 of 3	Description: Clear soft adhesive with beige spongy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Adhesive/binder, Synthetic/binder	None Detected ND	None Detected ND

Lab ID: 26054581 Client Sample #: RB-40-C
Location: Rainier Brewery

Layer 1 of 3	Description: White fibrous woven material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Paint	Cellulose 65%	None Detected ND
Layer 2 of 3	Description: Off-white fibrous material with foil		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Metal foil	Cellulose 35%	None Detected ND
		Glass fibers 7%	
Layer 3 of 3	Description: Clear soft adhesive with beige spongy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Adhesive/binder, Synthetic/binder	None Detected ND	None Detected ND

Sampled by: Client
Analyzed by: Lyudmila Manzar Date: 07/13/2006

DRAFT

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608903.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 24
Method: EPA/600R-93/116

Lab ID: 26054582 **Client Sample #: RB-41-A**
Location: Rainier Brewery

Layer 1 of 4	Description: Light gray tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous particles, Vinyl/binder	None Detected ND	Chrysotile 2%
Layer 2 of 4	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Mastic/binder	Cellulose 3%	Chrysotile 2%
Layer 3 of 4	Description: Gray fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Binder/Filler	Cellulose 65%	None Detected ND
		Synthetic fibers 25%	
Layer 4 of 4	Description: Off-white chalky material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Gypsum/binder	Cellulose 5%	None Detected ND

Lab ID: 26054583 **Client Sample #: RB-41-B**
Location: Rainier Brewery

Layer 1 of 2	Description: Light gray tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous particles, Vinyl/binder	None Detected ND	Chrysotile 2%
Layer 2 of 2	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Mastic/binder	None Detected ND	Chrysotile 2%

Lab ID: 26054584 **Client Sample #: RB-41-C**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/12/2006

DRAFT

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Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608903.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 24
Method: EPA/600R-93/116

Layer 1 of 3	**Description:** Light gray tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/binder	None Detected ND	**Chrysotile 2%**
Layer 2 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Mastic/binder	None Detected ND	**Chrysotile 2%**
Layer 3 of 3	**Description:** Off-white chalky material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Gypsum/binder	Cellulose 2%	**None Detected ND**

Lab ID: 26054585 **Client Sample #: RB-42-A**
Location: Rainier Brewery

Layer 1 of 1	**Description:** Off-white compacted powdery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler	None Detected ND	**None Detected ND**

Lab ID: 26054586 **Client Sample #: RB-42-B**
Location: Rainier Brewery

Layer 1 of 1	**Description:** Off-white compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Paint	None Detected ND	**None Detected ND**

Lab ID: 26054587 **Client Sample #: RB-42-C**
Location: Rainier Brewery

Layer 1 of 1	**Description:** Off-white compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Paint	None Detected ND	**None Detected ND**

Lab ID: 26054588 **Client Sample #: RB-43-A**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk **Date:** 07/12/2006

DRAFT

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Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608903.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 24
Method: EPA/600R-93/116

Layer 1 of 2	Description: Tan thin sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous particles, Vinyl/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Black asphaltic fibrous backing		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 65%	None Detected ND
		Synthetic fibers 5%	

Lab ID: 26054589 **Client Sample #: RB-43-B**
Location: Rainier Brewery

Layer 1 of 2	Description: Tan thin sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous particles, Vinyl/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Black asphaltic fibrous backing		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 65%	None Detected ND
		Synthetic fibers 5%	

Lab ID: 26054590 **Client Sample #: RB-43-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Tan thin sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous particles, Vinyl/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Black asphaltic fibrous backing		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 65%	None Detected ND
		Synthetic fibers 5%	

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/12/2006 DRAFT

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Project Location: Rainier Brewery

Batch #: 2608903.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 24
Method: EPA/600R-93/116

Lab ID: 26054591 **Client Sample #: RB-44-A**
Location: Rainier Brewery

Layer 1 of 3	Description: White fibrous material with paint and foil		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Adhesive/binder, Paint	Cellulose 45%	None Detected ND
	Metal foil		
Layer 2 of 3	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Mastic/binder	Cellulose 1%	None Detected ND
Layer 3 of 3	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 90%	None Detected ND

Lab ID: 26054592 **Client Sample #: RB-44-B**
Location: Rainier Brewery

Layer 1 of 3	Description: White fibrous material with paint and foil		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Adhesive/binder, Paint	Cellulose 45%	None Detected ND
	Metal foil		
Layer 2 of 3	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Mastic/binder	Cellulose 1%	None Detected ND
Layer 3 of 3	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 90%	None Detected ND

Lab ID: 26054593 **Client Sample #: RB-44-C**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/12/2006

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Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608903.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 24
Method: EPA/600R-93/116

Layer 1 of 3	Description: White fibrous material with paint and foil		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Adhesive/binder, Paint	Cellulose 45%	None Detected ND
	Metal foil		
Layer 2 of 3	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Mastic/binder	Cellulose 1%	None Detected ND
Layer 3 of 3	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 90%	None Detected ND

Lab ID: 26054594 **Client Sample #: RB-45-A**
Location: Rainier Brewery

Layer 1 of 4	Description: Tan fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Adhesive/binder	Cellulose 97%	None Detected ND
Layer 2 of 4	Description: Layered black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 75%	None Detected ND
Layer 3 of 4	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Mastic/binder	None Detected ND	None Detected ND
Layer 4 of 4	Description: Black fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Sand, Gravel	Cellulose 95%	None Detected ND

Lab ID: 26054595 **Client Sample #: RB-45-B**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/12/2006

DRAFT

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NVLAP #102083

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608903.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 24
Method: EPA/600R-93/116

Layer 1 of 3	Description: Layered black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 75%	None Detected ND
Layer 2 of 3	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Mastic/binder	None Detected ND	None Detected ND
Layer 3 of 3	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Gravel	None Detected ND	None Detected ND

Lab ID: 26054596 **Client Sample #: RB-45-C**
Location: Rainier Brewery

Layer 1 of 2	Description: Multi-layered black asphaltic fibrous material with silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Metallic paint	Glass fibers 15%	None Detected ND
		Synthetic fibers 25%	
Layer 2 of 2	Description: Black fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Sand, Gravel	Cellulose 60%	None Detected ND

Lab ID: 26054597 **Client Sample #: RB-46-A**
Location: Rainier Brewery

Layer 1 of 2	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Metallic paint	Cellulose 1%	None Detected ND
		Glass fibers 2%	

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/12/2006 DRAFT

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Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608903.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 24
Method: EPA/600R-93/116

Layer 2 of 2	**Description:** Black asphaltic material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Paint	Cellulose 10%	**None Detected ND**
Lab ID: 26054598	**Client Sample #: RB-46-B**		
Location: Rainier Brewery			
Layer 1 of 1	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 10%	**None Detected ND**
Lab ID: 26054599	Client Sample #: RB-46-C		
Location: Rainier Brewery			
Layer 1 of 1	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 10%	**None Detected ND**
Lab ID: 26054600	Client Sample #: RB-47-A		
Location: Rainier Brewery			
Layer 1 of 5	**Description:** Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Metallic paint	Cellulose 1%	**Chrysotile 2%**
Layer 2 of 5	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 5%	**None Detected ND**
		Glass fibers 10%	
Layer 3 of 5	**Description:** Layered black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 45%	**Chrysotile 35%**

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/12/2006

DRAFT

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Client: Ethan Construction
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Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608903.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 24
Method: EPA/600R-93/116

Layer 4 of 5	Description: Tan compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Binder/Filler, Perlite	Cellulose 70%	None Detected ND
Layer 5 of 5	Description: Tan compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Asphalt/binder	Cellulose 97%	None Detected ND

Lab ID: 26054601 **Client Sample #: RB-47-B**
Location: Rainier Brewery

Layer 1 of 5	Description: Multi-layered black asphaltic material with silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Metallic paint	Glass fibers 15%	None Detected ND
		Synthetic fibers 25%	
Layer 2 of 5	Description: Tan compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Adhesive/binder, Perlite	Cellulose 70%	None Detected ND
Layer 3 of 5	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Metallic paint	None Detected ND	Chrysotile 2%
Layer 4 of 5	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Glass fibers 15%	None Detected ND
Layer 5 of 5	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 45%	Chrysotile 35%

Lab ID: 26054602 **Client Sample #: RB-47-C**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/12/2006 DRAFT

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Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608903.00
Client Project #: N/A
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Samples Analyzed: 24
Method: EPA/600R-93/116

Layer 1 of 4	Description: Black asphaltic fibrous material with silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Metallic paint	Glass fibers 15%	None Detected ND
		Synthetic fibers 25%	
Layer 2 of 4	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND
Layer 3 of 4	Description: Tan compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Asphalt/binder	Cellulose 95%	None Detected ND
Layer 4 of 4	Description: Trace tan compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Binder/Filler, Perlite	Cellulose 70%	None Detected ND

Lab ID: 26054603 **Client Sample #: RB-48-A**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic material with silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Metallic paint	Cellulose 10%	None Detected ND

Lab ID: 26054604 **Client Sample #: RB-48-B**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 10%	None Detected ND

Lab ID: 26054605 **Client Sample #: RB-48-C**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/12/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

NVL Laboratories, Inc.
4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2608903.00
Client Project #: N/A
Date Received: 07/11/2006
Samples Received: 30
Samples Analyzed: 24
Method: EPA/600R-93/116

Layer 1 of 2	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Metallic paint	Cellulose 1%	None Detected ND
		Glass fibers 2%	
Layer 2 of 2	Description: Black asphaltic material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Paint	Cellulose 10%	None Detected ND

Lab ID: 26054648	Client Sample #: RB-49-B	Sample Status:	Not Submitted
Lab ID: 26054649	Client Sample #: RB-49-C	Sample Status:	Not Submitted
Lab ID: 26054650	Client Sample #: RB-50-A	Sample Status:	Not Submitted
Lab ID: 26054651	Client Sample #: RB-50-B	Sample Status:	Not Submitted
Lab ID: 26054652	Client Sample #: RB-50-C	Sample Status:	Not Submitted

Sampled by: Client
Analyzed by: Nadia Prysyazhnyuk Date: 07/12/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

BATCH ID
2608903.00

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206.634.1936 1.888.NVLLABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

NVL LABS

Client: Ethan Construction, LLC
Street: 3100 Airport Way South
Seattle, WA 98134
Project Manager: Joseph L. Jackson
Project Location: Ranier Brewery

NVL Batch Number:
Client Job Number:
Total Samples:
Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address: joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other	
☒ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM Bulk		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		28-41-A		
2		B		
3		C		
4		42-A		
5		B		
6		C		
7		43-A		
8		B		
9		C		
10		44-A		
11		B		
12		C		
13		45-A		
14		B		
15		C		

	Print Below	Sign Below	Company	Date	Time
Sampled by	B Kehne		EF	7/10/06	5pm
Relinquished by					
Received by	N. Romero		NVL	7/11/06	15.15
Analyzed by	Nadia		NVL	7/12/06	
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

BATCH ID
2608903.00

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY
SAMPLE LOG

Pg 1 of 13

NVL LABS

Client Ethan Construction, LLC
Street 3100 Airport Way South
Seattle, WA 98134
Project Manager Joseph L. Jackson
Project Location Ranier Brewery

NVL Batch Number
Client Job Number
Total Samples
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days
☐ 2-Hrs ☒ 2 Days ☐ 5 Days
☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☐ Asbestos Bulk ☑ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify)
☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		46-A		
2		B		
3		C		
4		47-A		
5		B		
6		C		
7		48-A		
8		B		
9		C		
10		49-A		
11		B		
12		C		
13		50-A		
14		B		
15		C		

	Print Below	Sign Below	Company	Date	Time
Sampled by	Blackmon		EVI	7/10/06	5pm
Relinquished by					
Received by	M. Ann		NVL	07/11/06	15:15
Analyzed by	Noelle		NVL	7/12/06	
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

BATCH ID

2609554.00

NVL LABS

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206 634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

Client: Ethan Construction, LLC
Street: 3100 Airport Way South
Seattle, WA 98134

NVL Batch Number:
Client Job Number:
Total Samples:

Project Manager: Joseph L. Jackson
Project Location: Ranier Brewery

Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs

Email address: joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other

☒ Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RB-R-1A	Roof - BUR - TAR - #13	
2		RB-R-1B	Roof - ↓	
3		RB-R-1C	Roof -	
4		RB-R-2A	Roof - FLASHING - #13	
5		RB-R-2B	Roof - "	
6		RB-R-2C	Roof - "	
7		RB-R-3A	Roof - BUR + TAR #22	
8		RB-R-3B	Roof - "	
9		RB-R-3C	Roof - "	
10		RB-R-4A	Roof - FLASHING #22	
11		RB-R-4B	Roof - "	
12		RB-R-4C	Roof - "	
13		RB-R-5A	Roof - BUR + TAR - #14	
14		RB-R-5B	Roof - "	
15		RB-R-5C	Roof - "	

	Print Below	Sign Below	Company	Date	Time
Sampled by	T. Beckner	[signature]	EVI	7/20/06	12 pm
Relinquished by					
Received by	Erin Lewis	[signature]	NVL	7/24/06	9:00 Fed EX
Analyzed by	[illegible]	[signature]	NVL	7/26/06	8:28 A.M.
Results Called by	↓	↓			
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

Email results to conrad.vernon@comcast.net

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg. Cell: 206.914.4646
1.888.NVL.LABS (685.5227) www.nvllabs.com

CHAIN OF CUSTODY SAMPLE LOG

NVL LABS

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Project Manager: Mr. Joseph Jackson
Project Location: Rainier Brewery

NVL Batch Number: 2609554.00
Client Job Number: N/A
Total Samples: 15 Rush Samples:
TAT: 2 Days Rush TAT: AH:
Due Date: 07/26/2006 Time: 9:00 AM
Email address: joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other		
☒ Asbestos Bulk	☒ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK			
☐ Mold/Fungus	☐ Mold Air	☐ Mold Bulk	☐ Rotometer Calibration				

METALS	Det. Limit	Matrix		RCRA Metals	☐ All 8	Other Metals ☐ All 3
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Paint Chips in %	☐ Arsenic (As)	☐ Lead (Pb)	☐ Copper (Cu)
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in cn	☐ Barium (Ba)	☐ Mercury (Hg)	☐ Nickel (Ni)
	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Waste Water	☐ Cadmium (Cd)	☐ Selenium (Se	☐ Zinc (Zn)
	☐ CVAA (ppb)	☐ Soil	☐ Other	☐ Chromium (Cr)	☐ Silver (Ag)	

☐ Other Types of Analysis	☐ Fiberglass	☐ Nuisance Dust	☐ Other (Specify)
	☐ Silica	☐ Respirable Dust	

Condition of Package ☒ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1	26059116	RB-R-1A		A
2	26059117	RB-R-1B		A
3	26059118	RB-R-1C		A
4	26059119	RB-R-2A		A
5	26059120	RB-R-2B		A
6	26059121	RB-R-2C		A
7	26059122	RB-R-3A		A
8	26059123	RB-R-3B		A
9	26059124	RB-R-3C		A
10	26059125	RB-R-4A		A
11	26059126	RB-R-4B		A
12	26059127	RB-R-4C		A
13	26059128	RB-R-5A		A
14	26059129	RB-R-5B		A
15	26059130	RB-R-5C		A

		Sign Below	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				
Received by	Michael Dougherty		NVL-AUR	7/24/06	9:00 AM
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Email results to conrad.vernon@comcast.net

Entered by: Michael Dougherty Date: 07/24/2006 Time: 9:18 AM

NVL Laboratories, Inc.
4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609554.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 26059116 **Client Sample #: RB-R-1A**
Location: Rainier Brewery

Layer 1 of 3	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Paint/binder	None Detected ND	**Chrysotile 2%**
Layer 2 of 3	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Fine particles	Cellulose 12%	**None Detected ND**
		Synthetic fibers 2%	
Layer 3 of 3	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Mastic/binder	None Detected ND	**None Detected ND**

Lab ID: 26059117 **Client Sample #: RB-R-1B**
Location: Rainier Brewery

Layer 1 of 2	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Paint/binder	None Detected ND	**Chrysotile 2%**
Layer 2 of 2	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Fine particles	Glass fibers 15%	**None Detected ND**

Lab ID: 26059118 **Client Sample #: RB-R-1C**
Location: Rainier Brewery

Layer 1 of 2	Description: Tan fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Perlite	Cellulose 5%	**None Detected ND**

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 07/26/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609554.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 2 of 2	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Fine particles	Glass fibers 12%	None Detected ND
Lab ID: 26059119	**Client Sample #: RB-R-2A**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Paint/binder	None Detected ND	Chrysotile 2%
Layer 2 of 2	Description: Black asphaltic material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Paint	None Detected ND	Chrysotile 2%
Lab ID: 26059120	**Client Sample #: RB-R-2B**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Adhesive/binder	Cellulose 5%	None Detected ND
Layer 2 of 2	Description: Tan brittle material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Calcareous particles, Paint	None Detected ND	None Detected ND
Lab ID: 26059121	**Client Sample #: RB-R-2C**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Paint/binder	None Detected ND	Chrysotile 2%

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk Date: 07/26/2006 DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609554.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 2 of 2	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 5%	None Detected ND
Lab ID: 26059122	**Client Sample #: RB-R-3A**		
Location: Rainier Brewery			
Layer 1 of 4	Description: Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Paint/binder	None Detected ND	Chrysotile 2%
Layer 2 of 4	Description: Tan fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Perlite	Cellulose 5%	None Detected ND
Layer 3 of 4	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Fine particles	Glass fibers 12%	None Detected ND
Layer 4 of 4	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Fine particles	Cellulose 15%	None Detected ND
Lab ID: 26059123	**Client Sample #: RB-R-3B**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Adhesive/binder	None Detected ND	None Detected ND
Layer 2 of 2	Description: Brown soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler	None Detected ND	None Detected ND

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk Date: 07/26/2006 DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609554.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 26059124 **Client Sample #: RB-R-3C**
Location: Rainier Brewery

Layer 1 of 1	Description: Multi-layered black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Fine particles, Perlite	Cellulose 5%	Chrysotile 15%

Lab ID: 26059125 **Client Sample #: RB-R-4A**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Cellulose 5%	None Detected ND

Lab ID: 26059126 **Client Sample #: RB-R-4B**
Location: Rainier Brewery

Layer 1 of 3	Description: Trace off-white compacted powdery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Calcareous particles	None Detected ND	None Detected ND
Layer 2 of 3	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	None Detected ND	None Detected ND
Layer 3 of 3	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Fine particles	Cellulose 10%	Chrysotile 15%

Lab ID: 26059127 **Client Sample #: RB-R-4C**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Sand	None Detected ND	None Detected ND

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk Date: 07/26/2006

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609554.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 2 of 2	Description: Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Fine particles	Cellulose 5%	**Chrysotile 15%**
Lab ID: 26059128	**Client Sample #: RB-R-5A**		
Location: Rainier Brewery			
Layer 1 of 1	Description: Multi-layered black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Sand	Cellulose 10%	**Chrysotile 5%**
Lab ID: 26059129	**Client Sample #: RB-R-5B**		
Location: Rainier Brewery			
Layer 1 of 1	Description: Multi-layered black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 12%	**None Detected ND**
Lab ID: 26059130	**Client Sample #: RB-R-5C**		
Location: Rainier Brewery			
Layer 1 of 2	Description: Multi-layered black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Sand	Synthetic fibers 12%	**None Detected ND**
Layer 2 of 2	Description: Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Mastic/binder	None Detected ND	**None Detected ND**

Sampled by: Client

Analyzed by: Alla Prysyazhnyuk Date: 07/26/2006

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609556.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 26059132 **Client Sample #: RB-R-6A**
Location: Rainier Brewery

Layer 1 of 3	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 5%	**Chrysotile 2%**
Layer 2 of 3	**Description:** Yellow brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles	None Detected ND	**None Detected ND**
Layer 3 of 3	**Description:** Gray soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles	None Detected ND	**None Detected ND**

Lab ID: 26059133 **Client Sample #: RB-R-6B**
Location: Rainier Brewery

Layer 1 of 3	**Description:** Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Paint/binder	None Detected ND	**Chrysotile 2%**
Layer 2 of 3	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 5%	**Chrysotile 2%**
Layer 3 of 3	**Description:** Gray soft material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Paint	None Detected ND	**None Detected ND**

Lab ID: 26059134 **Client Sample #: RB-R-6C**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 07/26/2006

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Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609556.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 1 of 3	**Description:** Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Paint/binder	None Detected ND	**Chrysotile 2%**
Layer 2 of 3	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 5%	**Chrysotile 2%**
Layer 3 of 3	**Description:** Gray soft material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Paint	None Detected ND	**None Detected ND**

Lab ID: 26059135 **Client Sample #: RB-R-7A**
Location: Rainier Brewery

Layer 1 of 3	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Glass fibers 12%	**None Detected ND**
Layer 2 of 3	**Description:** Tan fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles	Cellulose 75%	**None Detected ND**
Layer 3 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Adhesive/binder, Mastic/binder	None Detected ND	**None Detected ND**

Lab ID: 26059136 **Client Sample #: RB-R-7B**
Location: Rainier Brewery

Layer 1 of 1	**Description:** Multi-layered black asphaltic material with granules		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder, Granules	Glass fibers 15%	**None Detected ND**
		Synthetic fibers 10%	

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 07/26/2006 DRAFT

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By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609556.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 26059137 **Client Sample #: RB-R-7C**
Location: Rainier Brewery

Layer 1 of 3	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Glass fibers 12%	**Chrysotile 2%**
Layer 3 of 3	**Description:** Tan fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles	Cellulose 75%	**None Detected ND**

Lab ID: 26059138 **Client Sample #: RB-R-8A**
Location: Rainier Brewery

Layer 1 of 3	**Description:** Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Paint/binder	None Detected ND	**Chrysotile 2%**
Layer 2 of 3	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 5%	**Chrysotile 2%**
Layer 3 of 3	**Description:** Brown soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles	None Detected ND	**None Detected ND**

Lab ID: 26059139 **Client Sample #: RB-R-8B**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 07/26/2006

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Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609556.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 26059142 **Client Sample #: RB-R-9B**
Location: Rainier Brewery

Layer 1 of 1 **Description:** Multi-layered black asphaltic fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/binder, Fine particles	Glass fibers 12%	**None Detected ND**
	Synthetic fibers 15%	

Lab ID: 26059143 **Client Sample #: RB-R-9C**
Location: Rainier Brewery

Layer 1 of 2 **Description:** Silver paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint/binder	None Detected ND	**Chrysotile 2%**

Layer 2 of 2 **Description:** Multi-layered black asphaltic fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/binder	Glass fibers 12%	**None Detected ND**
	Cellulose 2%	

Lab ID: 26059144 **Client Sample #: RB-R-10A**
Location: Rainier Brewery

Layer 1 of 2 **Description:** Silver paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Paint/binder	None Detected ND	**Chrysotile 2%**

Layer 2 of 2 **Description:** Black asphaltic material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/binder	Glass fibers 5%	**None Detected ND**

Lab ID: 26059145 **Client Sample #: RB-R-10B**
Location: Rainier Brewery

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 07/26/2006

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Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609556.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 1 of 2	**Description:** Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Paint/binder	None Detected ND	**Chrysotile 2%**
Layer 2 of 2	**Description:** Brown soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles	None Detected ND	**None Detected ND**

Lab ID: 26059140 **Client Sample #: RB-R-8C**
Location: Rainier Brewery

Layer 1 of 2	**Description:** Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Paint/binder	Cellulose 2%	**Chrysotile 2%**
Layer 2 of 2	**Description:** Brown soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose 2%	**None Detected ND**

Lab ID: 26059141 **Client Sample #: RB-R-9A**
Location: Rainier Brewery

Layer 1 of 3	**Description:** Multi-layered black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Cellulose 5%	**None Detected ND**
		Synthetic fibers 12%	
Layer 2 of 3	**Description:** Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Paint/binder	Cellulose 2%	**Chrysotile 2%**
Layer 3 of 3	**Description:** Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/binder	Glass fibers 12%	**None Detected ND**

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 07/26/2006

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Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609556.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 1 of 2	**Description:** Tan soft material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type:**	**%**
	Binder/Filler, Fine particles	None Detected	ND	**None Detected**	**ND**
Layer 2 of 2	**Description:** Black asphaltic material with paint				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type:**	**%**
	Asphalt/binder, Paint	Cellulose	5%	**None Detected**	**ND**

Lab ID: 26059146 **Client Sample #: RB-R-10C**
Location: Rainier Brewery

Layer 1 of 2	**Description:** Tan soft material				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type:**	**%**
	Binder/Filler, Fine particles	None Detected	ND	**None Detected**	**ND**
Layer 2 of 2	**Description:** Black asphaltic material with paint				
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type:**	**%**
	Asphalt/binder, Paint	None Detected	ND	**None Detected**	**ND**

Sampled by: Client
Analyzed by: Alla Prysyazhnyuk **Date:** 07/26/2006

DRAFT

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609558.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 9
Samples Analyzed: 9
Method: EPA/600R-93/116

Lab ID: 26059162 **Client Sample #: RB-R-16A**
Location: Rainier Brewery

Layer 1 of 1 Description: Black asphaltic fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Asphalt/binder	Cellulose 15%	None Detected ND
	Glass fibers 7%	

Lab ID: 26059163 **Client Sample #: RB-R-16B**
Location: Rainier Brewery

Layer 1 of 1 Description: Black/tan rubbery material

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler	Cellulose 3%	None Detected ND

Lab ID: 26059164 **Client Sample #: RB-R-16C**
Location: Rainier Brewery

Layer 1 of 1 Description: Black asphaltic fibrous felt

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Asphalt/binder	Cellulose 45%	None Detected ND
	Glass fibers 5%	

Lab ID: 26059165 **Client Sample #: RB-R-17A**
Location: Rainier Brewery

Layer 1 of 2 Description: Black asphaltic fibrous material with granules

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Asphalt/binder, Mineral grains	Glass fibers 12%	None Detected ND

Layer 2 of 2 Description: Brown fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Binder/Filler, Perlite	Cellulose 70%	None Detected ND

Sampled by: Client
Analyzed by: Zubair Ahmed Date: 07/25/2006

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609558.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 9
Samples Analyzed: 9
Method: EPA/600R-93/116

Lab ID: 26059166 **Client Sample #: RB-R-17B**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic fibrous material with granules		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Mineral grains	Glass fibers 12%	None Detected ND
Layer 2 of 2	Description: Brown fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Perlite	Cellulose 70%	None Detected ND

Lab ID: 26059167 **Client Sample #: RB-R-17C**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic fibrous material with granules		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Mineral grains	Glass fibers 12%	None Detected ND
Layer 2 of 2	Description: Brown fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler, Perlite	Cellulose 70%	None Detected ND

Lab ID: 26059168 **Client Sample #: RB-R-18A**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic material with metal foil		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Metal foil, Paint	Cellulose 2%	None Detected ND

Lab ID: 26059169 **Client Sample #: RB-R-18B**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic material with metal foil		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Metal foil, Paint	Cellulose 2%	None Detected ND

Sampled by: Client
Analyzed by: Zubair Ahmed Date: 07/25/2006

DRAFT

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Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609558.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 9
Samples Analyzed: 9
Method: EPA/600R-93/116

Lab ID: 26059170 **Client Sample #: RB-R-18C**
Location: Rainier Brewery

Layer 1 of 1 **Description:** Black asphaltic material with metal foil

Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %	
Asphalt/binder, Metal foil, Paint	Cellulose	2%	None Detected	ND

Sampled by: Client
Analyzed by: Zubair Ahmed **Date:** 07/25/2006

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4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg. Cell: 206.914.4646
1.888.NVL.LABS (685.5227) www.nvllabs.com

CHAIN OF CUSTODY SAMPLE LOG

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Project Manager: Mr. Joseph Jackson
Project Location: Rainier Brewery

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

NVL Batch Number: 2609558.00
Client Job Number: N/A
Total Samples: 9 Rush Samples:
TAT: 2 Days Rush TAT: AH:
Due Date: 07/26/2006 Time: 9:00 AM
Email address: joseph@arieldevelopment.com

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM BULK

☐ Mold/Fungus ☐ Mold Air ☐ Mold Bulk ☐ Rotometer Calibration

METALS	Det. Limit	Matrix		RCRA Metals	All 8	Other Metals All 3
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Paint Chips in %	☐ Arsenic (As)	☐ Lead (Pb)	☐ Copper (Cu)
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in cm	☐ Barium (Ba)	☐ Mercury (Hg)	☐ Nickel (Ni)
	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Waste Water	☐ Cadmium (Cd)	☐ Selenium (Se)	☐ Zinc (Zn)
	☐ CVAA (ppb)	☐ Soil	☐ Other	☐ Chromium (Cr)	☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify) ☐ Silica ☐ Respirable Dust

Condition of Package ☒ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1	26059162	RB-R-16A		A
2	26059163	RB-R-16B		A
3	26059164	RB-R-16C		A
4	26059165	RB-R-17A		A
5	26059166	RB-R-17B		A
6	26059167	RB-R-17C		A
7	26059168	RB-R-18A		A
8	26059169	RB-R-18B		A
9	26059170	RB-R-18C		A
10				
11				
12				
13				
14				
15				

		Sign Below	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				
Received by	Erin Lewis		NVL-AUR	7/24/06	9:00 AM
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Email results to conrad.vernon@comcast.net

Entered by: Michael Dougherty Date: 07/24/2006 Time: 9:24 AM

BATCH ID
2609558.00

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

NVL LABS

Client: Ethan Construction, LLC
Street: 3100 Airport Way South
Seattle, WA 98134
Project Manager: Joseph L. Jackson
Project Location: Ranier Brewery

NVL Batch Number:
Client Job Number:
Total Samples:
Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address: joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk ☐ PCM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RB-R-16A	Roof Flashing 6/7	
2		RB-R-16B	Roof "	
3		RB-R-16C	Roof "	
4		RB-R-17A	Roof Mtn CAP - #5, SA, 10-12-23	
5		RB-R-17B	Roof "	
6		RB-R-17C	Roof "	
7		RB-R-18A	Roof Flashing - 5, SA, 10-12-23	
8		RB-R-18B	Roof "	
9		RB-R-18C	Roof "	
10		RB-R-	Roof	
11		RB-R-	Roof	
12		RB-R-	Roof	
13		RB-R-	Roof	
14		RB-R-	Roof	
15		RB-R-	Roof	

	Print Below	Sign Below	Company	Date	Time
Sampled by	T. Bleiner		E.V.E.	7/24/06	12 pm
Relinquished by					
Received by	Erin Lewis		NVL	7/24/06	9:00 Fed Ex
Analyzed by	Frank Hamer		NVL	7/25	5:30p
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

Email results to Conrad.Vernon@comcast.net

NVL Laboratories, Inc.
4708 Aurora Ave. N., Seattle, WA 98103
Tel: 206.547.0100, Fax: 206.634.1936
www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609557.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 26059147 **Client Sample #: RB-R-11A**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic fibrous built-up material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/binder	Cellulose	25%	None Detected ND
		Glass fibers	5%	

Lab ID: 26059148 **Client Sample #: RB-R-11B**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic fibrous built-up material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/binder	Cellulose	25%	None Detected ND
		Glass fibers	5%	

Lab ID: 26059149 **Client Sample #: RB-R-11C**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic fibrous built-up material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/binder	Cellulose	25%	None Detected ND
		Glass fibers	5%	

Lab ID: 26059150 **Client Sample #: RB-R-12A**
Location: Rainier Brewery

Layer 1 of 2	Description: Silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Paint	Cellulose	1%	Chrysotile 3%
Layer 2 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	Asbestos Type: %
	Asphalt/binder	Cellulose	2%	Chrysotile 5%

Sampled by: Client
Analyzed by: Zubair Ahmed Date: 07/25/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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www.nvllabs.com

NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609557.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 26059151 **Client Sample #: RB-R-12B**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 2	Description: Silver paint	Paint	None Detected ND	Chrysotile 3%
Layer 2 of 2	Description: Black asphaltic material	Asphalt/binder	None Detected ND	None Detected ND

Lab ID: 26059152 **Client Sample #: RB-R-12C**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 2	Description: Silver paint	Paint	None Detected ND	Chrysotile 3%
Layer 2 of 2	Description: Black asphaltic fibrous felt	Asphalt/binder	Cellulose 5%	Chrysotile 55%

Lab ID: 26059153 **Client Sample #: RB-R-13A**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 1	Description: Black asphaltic fibrous material with granules	Asphalt/binder, Mineral grains	Synthetic fibers 15%	None Detected ND

Lab ID: 26059154 **Client Sample #: RB-R-13B**
Location: Rainier Brewery

		Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
Layer 1 of 1	Description: Black asphaltic fibrous felt	Asphalt/binder, Mineral grains	Glass fibers 25%	None Detected ND

Sampled by: Client
Analyzed by: Zubair Ahmed Date: 07/25/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609557.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 26059155 **Client Sample #: RB-R-13C**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Asphalt/binder	Synthetic fibers 15%	None Detected	ND
Layer 2 of 2	Description: Black asphaltic fibrous felt			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Asphalt/binder	Glass fibers 25%	None Detected	ND

Lab ID: 26059156 **Client Sample #: RB-R-14A**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic fibrous felt			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Asphalt/binder	Cellulose 35%	None Detected	ND

Lab ID: 26059157 **Client Sample #: RB-R-14B**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Asphalt/binder	Polyethylene fibers 2%	None Detected	ND
Layer 2 of 2	Description: Black brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Binder/Filler	Cellulose 2%	None Detected	ND

Lab ID: 26059158 **Client Sample #: RB-R-14C**
Location: Rainier Brewery

Layer 1 of 1	Description: Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %	
	Asphalt/binder	Cellulose 15%	None Detected	ND

Sampled by: Client
Analyzed by: Zubair Ahmed Date: 07/25/2006

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP #102063

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Attention: Mr. Joseph Jackson
Project Location: Rainier Brewery

Batch #: 2609557.00
Client Project #: N/A
Date Received: 07/24/2006
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 26059159 **Client Sample #: RB-R-15A**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic fibrous material with granules		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder, Mineral grains	Glass fibers 15%	None Detected ND
Layer 2 of 2	Description: White foamy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Synthetic foam	None Detected ND	None Detected ND

Lab ID: 26059160 **Client Sample #: RB-R-15B**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic fibrous felt		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Glass fibers 65%	None Detected ND
Layer 2 of 2	Description: Cream foamy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Synthetic foam	None Detected ND	None Detected ND

Lab ID: 26059161 **Client Sample #: RB-R-15C**
Location: Rainier Brewery

Layer 1 of 2	Description: Black asphaltic fibrous built-up material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/binder	Glass fibers 12%	None Detected ND
		Cellulose 15%	
Layer 2 of 2	Description: Tan compressed fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler	Cellulose 95%	None Detected ND

Sampled by: Client
Analyzed by: Zubair Ahmed Date: 07/25/2006 DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

PA

BATCH ID
2609557.00

LABS

NVL Laboratories, Inc.
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Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

Client: Ethan Construction, LLC
Street: 3100 Airport Way South
Seattle, WA 98134

Project Manager: Joseph L. Jackson
Project Location: Ranier Brewery

NVL Batch Number:
Client Job Number:
Total Samples:

Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs

Email address: joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk ☐ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ ppm (AAS)	☐ Air Filter	☐ Paint Chips	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ppb (GFAA)	☐ Drinking water	☐ Paint Chips (Area)	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
		☐ Dust/wipe	☐ Waste Water	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)	☐ Selenium (Se)	☐ Zinc (Zn)
					☐ Silver (Ag)	

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		RB-R-11A	Roof - BUR - #8	
2		RB-R-11B	Roof - "	
3		RB-R-11C	Roof - "	
4		RB-R-12A	Roof - Flashing #8	
5		RB-R-12B	Roof - "	
6		RB-R-12C	Roof - "	
7		RB-R-13A	Roof - Min. CAP + TAR - #9	
8		RB-R-13B	Roof - "	
9		RB-R-13C	Roof - "	
10		RB-R-14A	Roof - Flashing #9	
11		RB-R-14B	Roof - "	
12		RB-R-14C	Roof - "	
13		RB-L-15A	Roof - Min CAP + TAR - #6/7	
14		RB-L-15B	Roof - "	
15		RB-L-15C	Roof - "	

	Print Below	Sign Below	Company	Date	Time
Sampled by	T. Bleckner		EVI	7/20/06	12 pm
Relinquished by					
Received by	Erin Lewis		NVL	7/24/06	9:00 Fed Ex
Analyzed by	[illegible]		NVL	7/25	4:00p
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

Email results to conrad.vernon@comcast.net

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Tel: 206.547.0100 Emerg. Cell: 206.914.4646
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CHAIN OF CUSTODY SAMPLE LOG

NVL LABS

Client: Ethan Construction
Address: 3100 Airport Way S.
Seattle, WA 98134

Project Manager: Mr. Joseph Jackson
Project Location: Rainier Brewery

NVL Batch Number: 2609557.00
Client Job Number: N/A
Total Samples: 15 Rush Samples:
TAT: 2 Days Rush TAT: AH:
Due Date: 07/26/2006 Time: 9:00 AM
Email address: joseph@arieldevelopment.com

Phone: (206) 447-0263 Fax: (206) 447-0299 Cell (206) 724-1874

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other
☒ Asbestos Bulk	☒ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK	
☐ Mold/Fungus	☐ Mold Air	☐ Mold Bulk	☐ Rotometer Calibration		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Paint Chips in %	☐ Arsenic (As)	☐ Lead (Pb)	☐ All 3
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in cm	☐ Barium (Ba)	☐ Mercury (Hg)	☐ Copper (Cu)
	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Waste Water	☐ Cadmium (Cd)	☐ Selenium (Se)	☐ Nickel (Ni)
	☐ CVAA (ppb)	☐ Soil	☐ Other	☐ Chromium (Cr)	☐ Silver (Ag)	☐ Zinc (Zn)

☐ Other Types of Analysis	☐ Fiberglass	☐ Nuisance Dust	☐ Other (Specify)	
	☐ Silica	☐ Respirable Dust		

Condition of Package ☒ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1	26059147	RB-R-11A		A
2	26059148	RB-R-11B		A
3	26059149	RB-R-11C		A
4	26059150	RB-R-12A		A
5	26059151	RB-R-12B		A
6	26059152	RB-R-12C		A
7	26059153	RB-R-13A		A
8	26059154	RB-R-13B		A
9	26059155	RB-R-13C		A
10	26059156	RB-R-14A		A
11	26059157	RB-R-14B		A
12	26059158	RB-R-14C		A
13	26059159	RB-R-15A		A
14	26059160	RB-R-15B		A
15	26059161	RB-R-15C		A

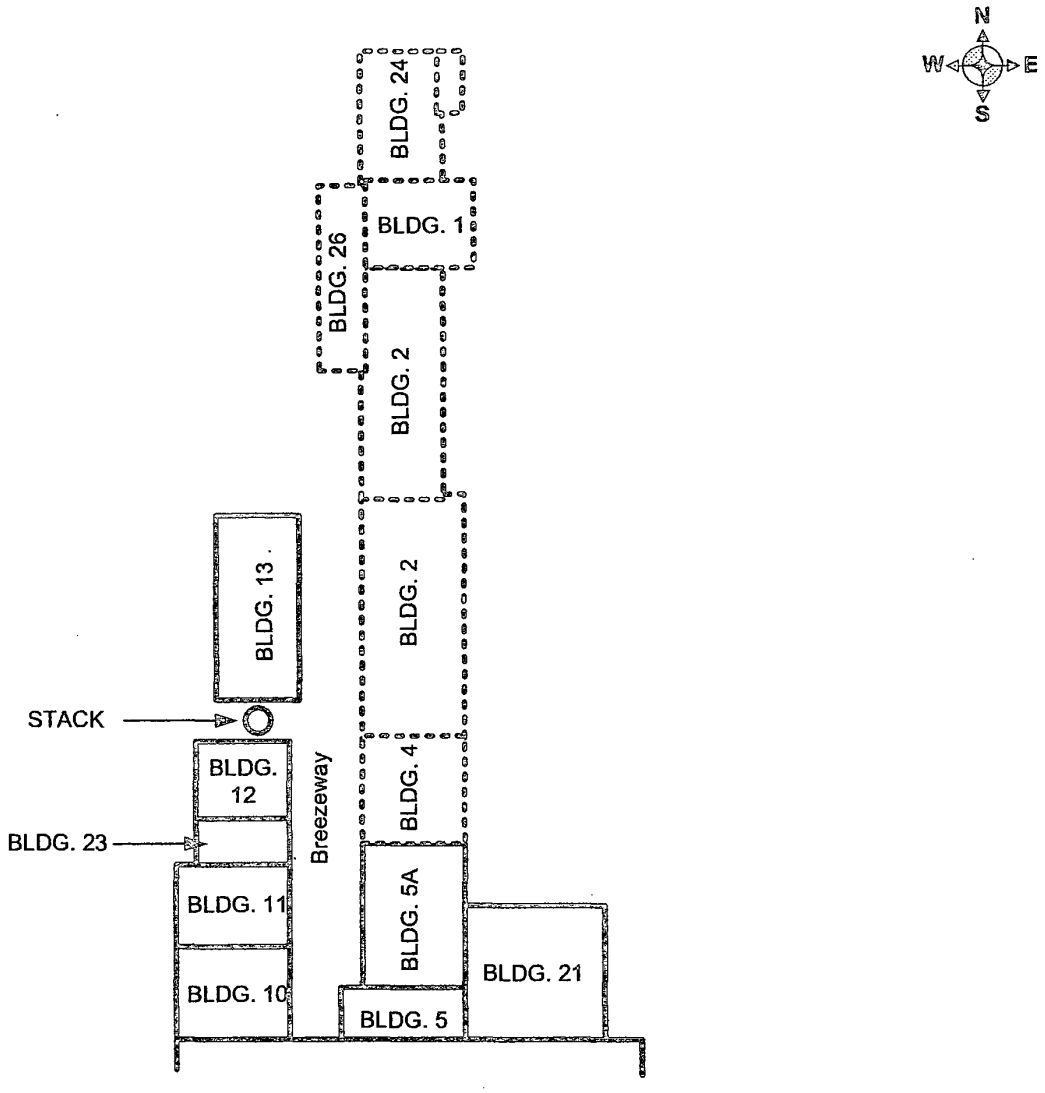
		Sign Below	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				
Received by	Erin Lewis		NVL-AUR	7/24/06	9:00 AM
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Email results to conrad.vernon@comcast.net

Entered by: Michael Dougherty Date: 07/24/2006 Time: 9:23 AM

APPENDIX B

SITE PLAN DRAWING



SOUTH BUILDINGS

ACM SUMMARY BY BLDG. (north)
5/5A – window putty 10 – windows putty, 9"x9" tile/mastic, 11 – window putty and TSI 12 – window putty 13 – window putty and roofing materials 21 – door gaskets and roofing materials 23 – cork mastic on tank and window putty Stack - None

BUILDINGS NOT INCLUDED IN SURVEY

BUILDINGS INCLUDED IN SURVEY

ASBESTOS SURVEY – SITE PLAN - NORTH BUILDINGS
FORMER RAINIER BREWERY
3100 AIRPORT WAY
SEATTLE, WA 98134

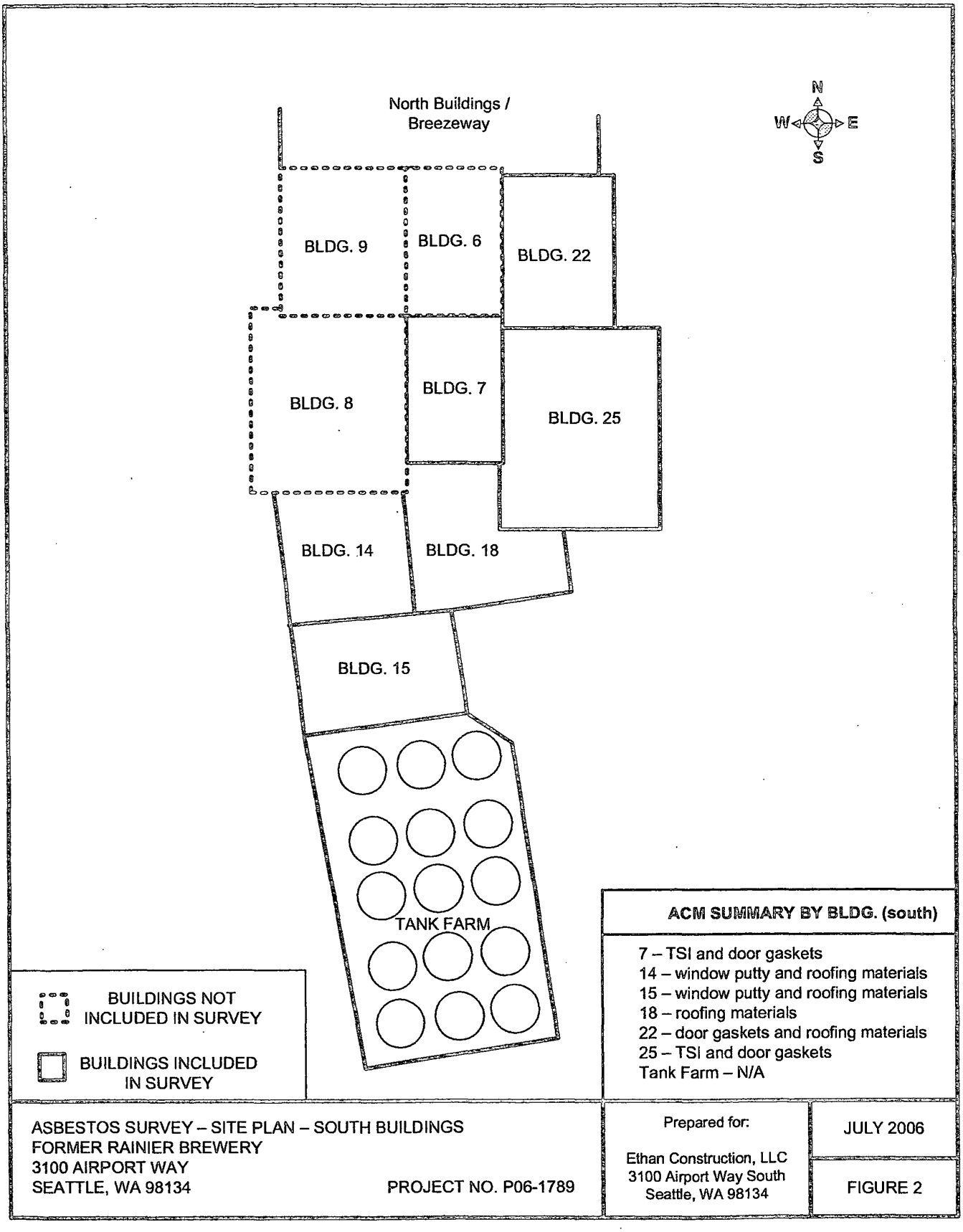
PROJECT NO. P06-1789

Prepared for:

Ethan Construction, LLC
3100 Airport Way South
Seattle, WA 98134

JULY 2006

FIGURE 1


North Buildings / Breezeway
N
W
E
S
BLDG. 9
BLDG. 6
BLDG. 22
BLDG. 8
BLDG. 7
BLDG. 25
BLDG. 14
BLDG. 18
BLDG. 15
TANK FARM
BUILDINGS NOT INCLUDED IN SURVEY
BUILDINGS INCLUDED IN SURVEY
ACM SUMMARY BY BLDG. (south)
7 – TSI and door gaskets
14 – window putty and roofing materials
15 – window putty and roofing materials
18 – roofing materials
22 – door gaskets and roofing materials
25 – TSI and door gaskets
Tank Farm – N/A
ASBESTOS SURVEY – SITE PLAN – SOUTH BUILDINGS
FORMER RAINIER BREWERY
3100 AIRPORT WAY
SEATTLE, WA 98134
PROJECT NO. P06-1789
Prepared for:
Ethan Construction, LLC
3100 Airport Way South
Seattle, WA 98134
JULY 2006
FIGURE 2

APPENDIX C

ASBESTOS TERMINOLOGY

Area, Location, Room Number – The area, location, and room number refers to where the material was located.

Material Code (Mat'l Code) - Asbestos-containing materials are categorized into three main types:

1) Surfacing Material (S): Material in a building that is sprayed-on, troweled-on, or otherwise applied to surfaces.

2) Thermal System Insulation (T): Material applied to pipes, fittings, tanks, ducts, etc., to prevent heat loss or gain or serve as condensation control.

3) Miscellaneous Material (M): Material on interior structural components, structural members or fixtures, but not including surfacing materials and thermal insulators (e.g., floor and ceiling tiles).

Material Identification/Material Sub-Category - Description of the material found in the location. (NOTE: Pipe diameters are approximate, outside diameters of the insulating materials).

Asbestos Content - This column specifies whether or not the bulk sample, or referenced bulk sample, for the described material tested contains >1% asbestos. ND means "No Asbestos Detected", NS means "Material Is Not Suspect", PRE means "Presumed Asbestos-Containing Material"; NT means "Not Tested". TR means "Trace" (trace = <1%).

Reference Sample Number - The sample number refers to the number assigned to the set of samples collected for the homogeneous material described (refer to Table 2).

Quantity - The amount of material present

Unit - The parameters of each quantity expressed as follows:

1) Square Feet (SF)

2) Linear Feet (LF)

3) Each (EA)

Physical Assessment - This column is divided into two sections describing the condition of the material at the time of the survey.
The first column expressed the friability of the material as follows:

1) Friable (F) - The material can be pulverized and reduced to a powder by manual pressure when dry; this could include damaged non-friable materials.

2) Non-Friable (N) - The material can not be crumbled using hand pressure.

The second column expressed the conditions of the material at the time of the survey as follows:

- N - Not Damaged
- D - Damaged, the material has deteriorated or sustained physical injury such that it is not intact, less than 25% localized damage or less than 10% overall damage.
- S - Significantly Damaged, the damage is extensive and severe, the asbestos-containing material has sustained greater than 25% localized damage or greater than 10% overall damage.

Damage Potential - This is a group of four columns that address the potential for the material to be disturbed/damaged in the future as follows:

- L - Low potential for damage
- M - Moderate potential for damage
- H - High potential for damage or significant damage

1) Water Damage (Water): This is determined by function of the system that is insulated, the presence of leaking pipes, roofs, etc. in the vicinity of the material.

2) Air Erosion (Air): The potential for air erosion to a material is determined by the movement of air in the area of the material and the relationship between the friability of the material and its location in respect to air plenums and air streams.

3) Vibrational Damage (Vib): This type of damage potential is determined by the presence of sounds, motors, mechanical equipment or other vibrational disturbances.

4) Accessibility (Acc): This column indicates the general use patterns of the area and the potential for contact with the material abbreviated as follows:

- L - accessed less than once per month
- M - routine access by Operations and Maintenance Workers, between once per week to once per month

H - generally accessible, routine contact by any building occupant, access more than once per week

Condition Rating: This is a 0-4 number assigned to summarize the data across the line. The condition ratings are primarily used in conjunction with a phased abatement program where the highest priority materials (Condition rating 4) are removed first and materials with lower condition ratings are managed under an Operations and Maintenance Plan. An explanation of each condition rating is as follows:

0 - NON-ASBESTOS-CONTAINING MATERIAL: The material does not contain detectable levels (1%) of asbestos and requires no further action.

1 - ASBESTOS-CONTAINING MATERIAL (NON-FRIABLE): The material contains asbestos and is non-friable. Avoid cutting, sanding, drilling or otherwise abrading the material. The material should be monitored under an O&M program.

2 - ASBESTOS-CONTAINING MATERIAL (FRIABLE): The material contains asbestos and is friable. No damage was observed. The material should be monitored under an O&M program.

3 - ASBESTOS-CONTAINING MATERIAL (FRIABLE, DAMAGED): The material contains asbestos and is friable. Localized damage and the potential for disturbance was observed. Repair (encapsulation, enclosure, and encasement) or removal of the material is recommended. Repaired materials should be monitored under an O&M program.

4 - ASBESTOS-CONTAINING MATERIAL (FRIABLE, SIGNIFICANTLY DAMAGED): The material contains asbestos and is friable. Extensive damage and significant potential for disturbance was observed. Immediate removal of the material is recommended.

AHERA category numbers also are inserted as follows:

1. Damaged or significantly damaged friable thermal system materials.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. Friable ACM with potential for significant damage.
6. Friable ACM with potential for damage.
7. Any remaining friable ACM or friable suspected ACM.

Reinspection Detail:

Reinspection and Periodic Surveillance details will appear only if reinspection or periodic surveillance is present. The reinspection, periodic surveillance, and response action details will be listed. Within the reinspection or periodic surveillance detail, information relating to changes in material condition appears.

The word "changed?" indicates a change in material condition or potential for future disturbance. New assessment information is also included in the reinspection or periodic surveillance detail. If "no change" appears, all assessment information remains the same as the previous inspection. AHERA category numbers also are inserted as follows:

1. Damaged or significantly damaged friable thermal system materials.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. Friable ACM with potential for significant damage.
6. Friable ACM with potential for damage.
7. Any remaining friable ACM or friable suspected ACM.

Non-friable and negative materials are not assigned an AHERA category number.

Abbreviations for friability, condition, condition rating, and potential for damage have been outlined in previous sections.

Response Action Detail:

Response action details will appear if removal, encapsulation, enclosure, or repair information exists.

This detail outlines removal, encapsulation, enclosure, and repair dates, and quantities for the specific material type. A total removal quantity and an adjusted ACM remaining quantity are provided. The asbestos contractor and consultant may also be identified here.

MATERIAL SAMPLE ANALYSIS KEY

Material Identification/Sub-Category/Letter: The sample number refers to the number assigned to the set of samples taken from a single homogeneous material. The letter following the number identifies samples individually within a homogeneous sample series (e.g. "A", "B", and "C" for three samples of one floor tile type).

Area, Location, Room Number: The area, location, and room number refers to where the sample was collected.

Material Identification/Material Sub-Category: This column is a written description of the material that was sampled.

Percent and Type Asbestos: This is a detailed breakdown of approximate percentage and mineral species of asbestos found during bulk sample analysis.

Percent and Type Non-Asbestos and Percent Non-Fibrous Constituents: Listing of approximate percentage of the remaining.

Samples collected during a reinspection are highlighted with an asterisk and the reinspection date.

APPENDIX D

SURVEY METHODS

ASBESTOS BUILDING SURVEY METHODS

The asbestos survey was conducted in accordance with 29CFR1926.1101, 40 CFR Part 61 and state or local requirements. All surveys are conducted by accredited inspectors.

The asbestos survey included identifying friable and non-friable, asbestos-containing building materials (ACBM), on a area-by-area basis, assessment of friability, current condition and potential for future disturbance of the material, an estimate of the amount of ACBM, and an overall condition rating of the material.

We identified and categorized suspect materials into three groups: 1) thermal system insulation (T) including pipe, HVAC insulation and fitting insulation; 2) sprayed-on or troweled-on surfacing material (S) including acoustical plaster, soundproofing, fireproofing, and decorative materials; and 3) miscellaneous materials (M) including ceiling tile and floor tile.

The inspector performed a visual estimation of the quantity of asbestos-containing materials and the current condition of these materials in all accessible areas. Factors included in the condition assessment are adhesion of the material to the underlying substrate, deterioration of the outer covering, delamination, contact damage, and materials disintegration.

Friability and potential for future damage of asbestos materials was also assessed by the inspector. Damage potential was evaluated by observation of conditions most likely to result in disturbance of asbestos-containing materials. These conditions are:

Air Erosion - A direct air stream moving across the material erodes the material, thereby creating airborne fibers. The potential for air erosion is determined by the relationship between the friability of the material and its location in respect to air plenums and air streams.

Vibrational Damage - determined by the presence of noise, physical movement and mechanical vibrations, which can create ambient fiber release.

Accessibility - If the material can be reached, it is accessible and subject to accidental or intentional contact damage.

Water Damage - Determined by the presence of water leaks or evidence of previous water leaks by water stains, delamination, etc.

Based on the assessment of asbestos-containing materials, priority ratings were generated to assist in the planning and implementation of a phased abatement and/or an Operations and Maintenance Program. High priority ratings indicate materials, which are significantly damaged and exposed to continual disturbance. Lower priority ratings represent materials with decreasingly lower exposure potentials.

Bulk samples of suspect materials were collected in a random and unbiased manner. Representative bulk samples of suspect materials were collected to determine the extent of ACBM present throughout the building. Sampling was completed in accordance with 40CFR763 (AHERA).

Sampling procedures utilized by the accredited inspector minimized fiber dispersal and conformed with applicable regulations. Suspect asbestos-containing materials were be analyzed by a NVLAP accredited laboratory using the Environmental Protection Agency (EPA) recommended polarized light microscopy (PLM) with dispersion staining analytical technique.

The Environmental Protection Agency (EPA) requires that any sample with an asbestos content estimated to be less than 10 percent by a method other than point counting, such as visual estimation, shall be repeated using the point counting technique with PLM. However, if the laboratory detects asbestos in the samples and estimates the amount by visual estimation to be less than 10 percent, the owner or operator of the building may elect to treat the material as asbestos-containing. A sample in which no asbestos is detected does not require repeat analysis using point counting techniques with PLM. Samples analyzed for this survey with values less than 10 percent have not been point counted and have been assumed to contain asbestos greater than 1 percent.

APPENDIX E

LABORATORY CREDENTIALS

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:1999

NVLAP LAB CODE: 102063-0

NVL Laboratories, Inc.
Seattle, WA

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in NIST Handbook 150:2001 and all requirements of ISO/IEC Guide 17025:1999.
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

2005-10-01 through 2006-09-30
Effective dates

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2005-05-19)

RCLLC 0002578

APPENDIX F

CERTIFICATIONS

THIS IS TO CERTIFY THAT

TERRY BLECKNER

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR / MANAGEMENT PLANNER REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 10/07/2005

Course Location: Portland, OR

Certificate: IMR-05-6993A

PBS

Expiration Date: 10/07/2006

AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

For verification of the authenticity of this certificate contact: PBS Environmental
4412 SW Corbett Avenue, Portland, OR 97239
(503) 248-1939

David Stover

David Stover, Director of Training

RCLLC 0002580

The

American Board of Industrial Hygiene®

ABIH®

organized to improve the practice of Industrial Hygiene
proclaims that

Terence 1. Bleckner

having met all requirements through
education, experience, and examination,
is hereby certified in the

COMPREHENSIVE PRACTICE
of
INDUSTRIAL HYGIENE

and has the right to use the designations

CERTIFIED INDUSTRIAL HYGIENIST

CIH

June 29, 2000
date

Chairman ABIH

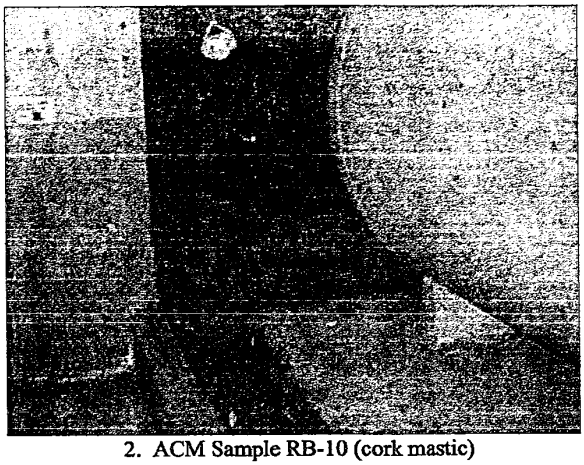
7973 CP
certificate
number

Secretary ABIH

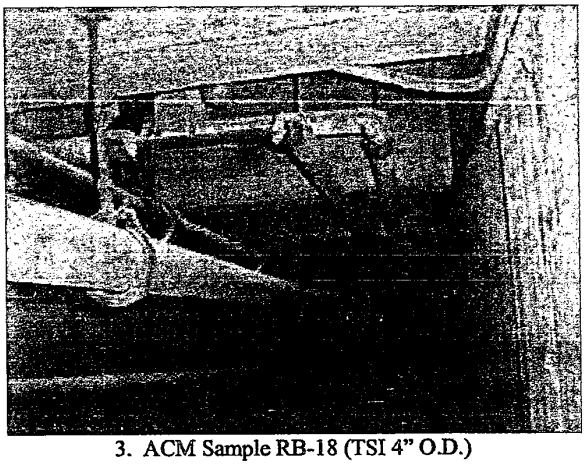
APPENDIX G

PHOTOGRAPHS

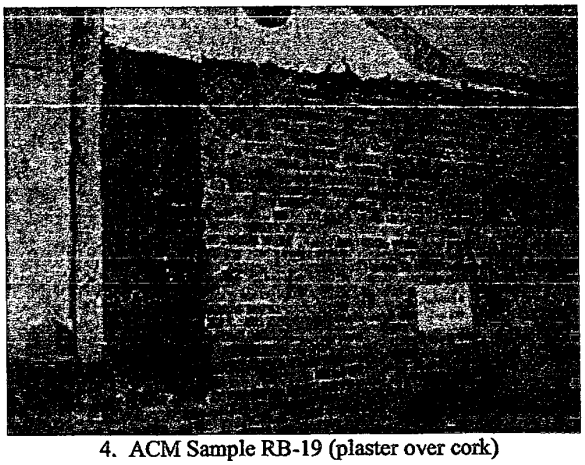
1. Subject Site – Former Rainier Brewery



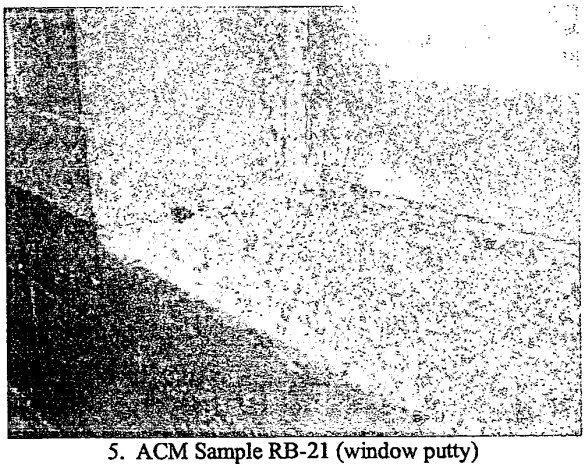
2. ACM Sample RB-10 (cork mastic)



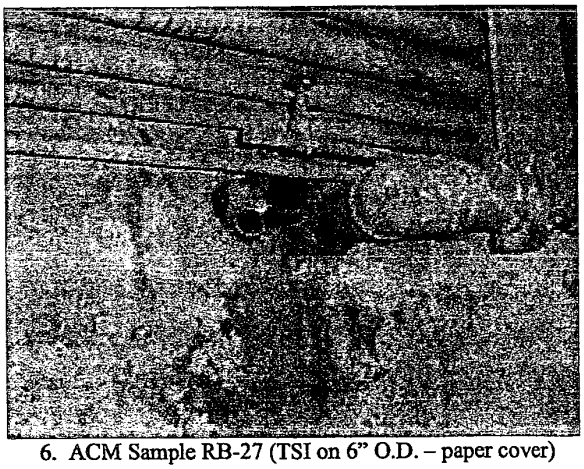
3. ACM Sample RB-18 (TSI 4" O.D.)



4. ACM Sample RB-19 (plaster over cork)

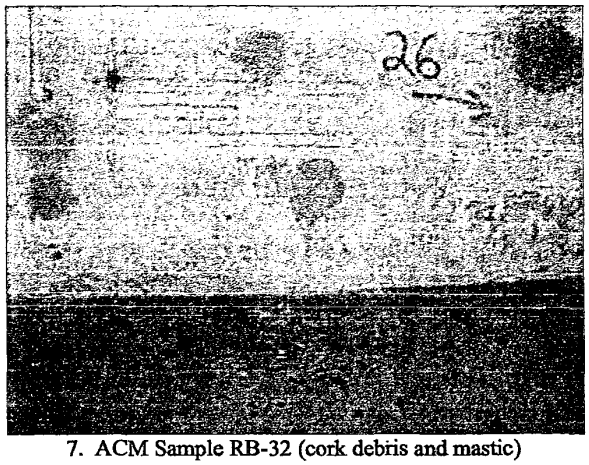


5. ACM Sample RB-21 (window putty)

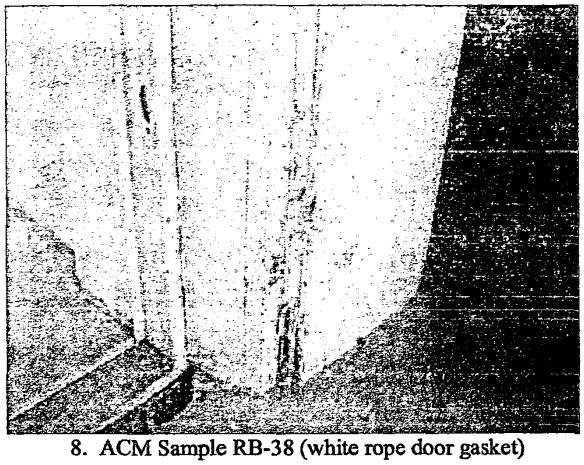


6. ACM Sample RB-27 (TSI on 6" O.D. – paper cover)

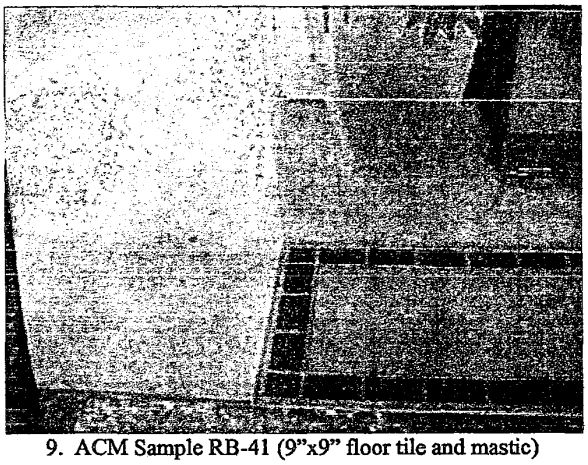
Photographed by TIB on July 11,12, and 20 - 2006



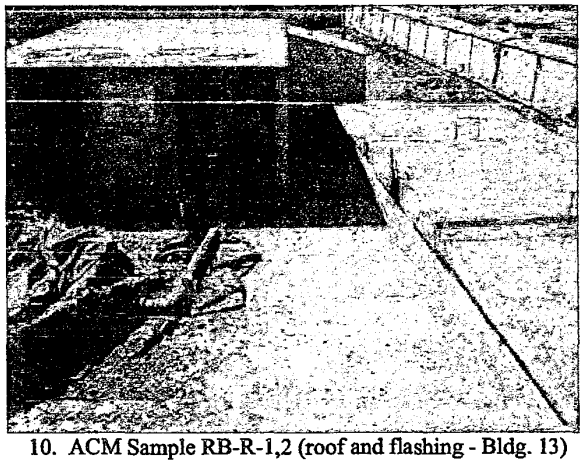
7. ACM Sample RB-32 (cork debris and mastic)



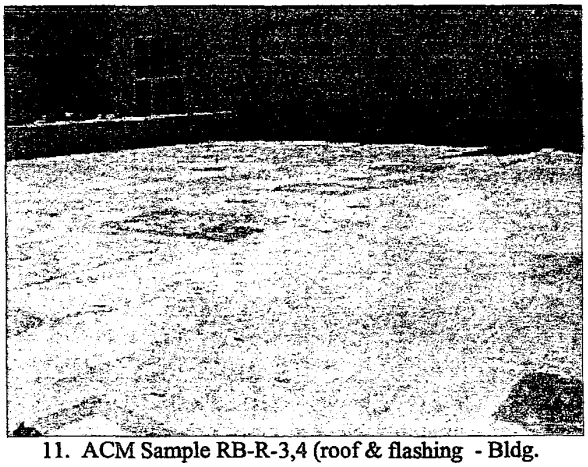
8. ACM Sample RB-38 (white rope door gasket)



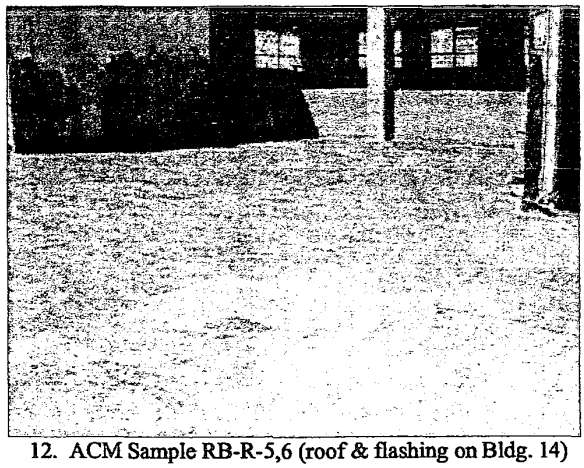
9. ACM Sample RB-41 (9"x9" floor tile and mastic)



10. ACM Sample RB-R-1,2 (roof and flashing - Bldg. 13)

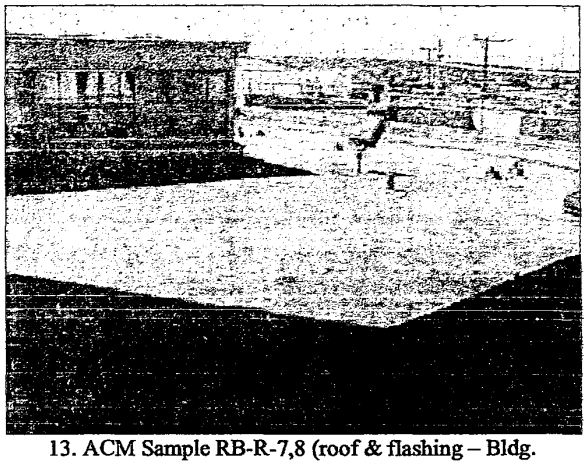


11. ACM Sample RB-R-3,4 (roof & flashing - Bldg. 22)

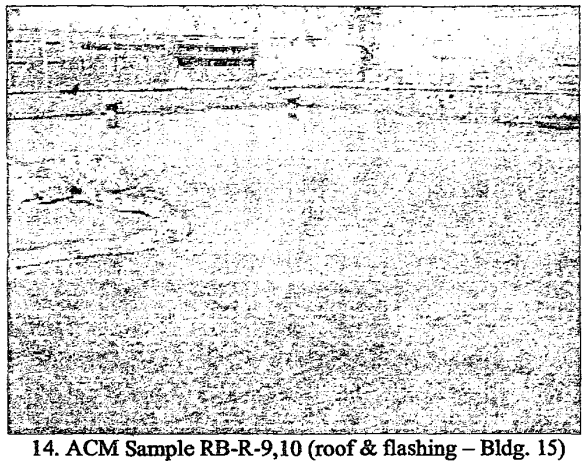


12. ACM Sample RB-R-5,6 (roof & flashing on Bldg. 14)

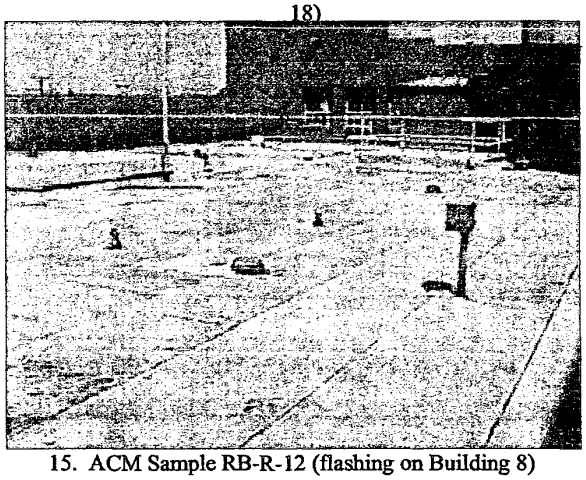
Photographed by TIB on July 11,12, and 20 - 2006



13. ACM Sample RB-R-7,8 (roof & flashing – Bldg. 18)



14. ACM Sample RB-R-9,10 (roof & flashing – Bldg. 15)



15. ACM Sample RB-R-12 (flashing on Building 8)

APPENDIX H

WAC 296-64 (WA Asbestos Rules)

ASBESTOS REMOVAL AND ENCAPSULATION

WAC 296-65-001 Purpose and scope. This standard regulates asbestos removal and encapsulation, requires contractor certification, specifies minimum training for supervisors and workers on asbestos projects, requires notification of asbestos projects, and establishes a training course approval program. This standard applies to the removal or encapsulation of any materials containing more than one percent asbestos by volume)).
[Statutory Authority: Chapter 49.17 RCW97-19-014 (Order 97-07), § 296-65-001, filed 10/05/97, effective 11/05/97. 89-21-018 (Order 89-10), § 296-65-001, filed 10/10/89, effective 11/24/89. Statutory Authority: SSB 4209, 1985 c 387. 85-21-080 (Order 85-30), § 296-65-001, filed 10/22/85.]

WAC 296-65-003 Definitions. Unless the context clearly requires otherwise, the definitions in this section apply throughout this standard.

"Approved" means approved by the department.

"Asbestos" includes chrysotile, amosite, crocidolite, tremolite asbestos, anthophyllite asbestos, and actinolite asbestos, and any of these minerals that have been chemically treated and/or altered.

"Asbestos fiber" means asbestos fiber as defined in WAC 296-62-07703 as "fiber."

"Asbestos abatement project" means an asbestos project involving three square feet or three linear feet, or more, of asbestos containing material.

"Asbestos project" includes the construction, demolition, repair, remodeling, maintenance or renovation of any public or private building or structure, mechanical piping equipment or system involving the demolition, removal, encapsulation, salvage, or disposal of material or outdoor activity releasing or likely to release asbestos fibers into the air.

"Certified asbestos contractor" means any partnership, firm, association, corporation or sole proprietorship, registered under chapter 18.27 RCW, that submits a bid, or contracts to remove or encapsulate asbestos for another and is certified by the department to remove or encapsulate asbestos.

"Certificate" means a certificate issued by the department that shall include the name of person awarded the certificate, certificate number, the discipline for which certification was conferred, training and examination dates, the course provider's name and address, and the course provider's telephone number, expiration date, and a statement that the person receiving the certificate has completed the training for asbestos accreditation under TSCA Title II.

"Certified asbestos supervisor" means an individual who is certified by the department under WAC 296-65-012.

WAC 296-65-003 (Cont.)

"Certified asbestos worker" means an individual certified by the department under WAC 296-65-010.

"Department" means the department of labor and industries.

"Demolition" means the activity of razing a structure which includes the wrecking, removal, or dismantling of any load-supporting structural member of any facility including any related handling operations.

"Director" means the director of the department of labor and industries or the director's designee.

"Emergency project" means a project that was not planned but results from a sudden, unexpected event and does not include operations that are necessitated by nonroutine failures of equipment or systems.

"Encapsulation" means the application of an encapsulant to asbestos containing materials to control the release of asbestos fibers into the air. The encapsulation process either creates a membrane over the surface (bridging encapsulant) or penetrates the material and binds its components together (penetrating encapsulant).

"EPA MAP" means the environmental protection agency model accreditation plan for asbestos requirements in 40 CFR Part 763.

"HEPA filtration" means high-efficiency particulate air filtration found in respirators and vacuum systems capable of filtering 0.3 micron particles with 99.97% efficiency.

"Intact" means that the asbestos containing material has not crumbled, been pulverized, or otherwise deteriorated so that it is no longer likely to be bound with its matrix.

"NESHAP" means the National Emission Standards for Hazardous Air Pollutants.

"Owner" means the person who owns any public or private building, structure, facility, or mechanical system, or the remnants thereof, or the agent of such person, but does not include individuals who work on asbestos projects in their own single-family residences, no part of which is used for commercial purposes.

"Person" means any individual, partnership, firm, association, corporation, sole proprietorship, or the state of Washington or its political subdivisions.

"Revocation" means a permanent withdrawal of a certification issued by the department.

"Suspension" means a temporary withdrawal of a certification issued by the department. No suspension shall be less than six months or longer than one year.

[Statutory Authority: RCW 49.17.010, .040, .050, and RCW 49.26.130. 00-06-075 (Order 99-40), § 296-65-003, filed 03/01/00, effective 04/10/00. Statutory Authority: RCW 49.17.040, .050; RCW 49.26.040 and 49.26.130. 99-17-026 (Order 98-17), § 296-65-003, filed 08/10/99, effective 11/10/99. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.060, 96-05-056 (Order 95-18), § 296-65-003, filed 02/16/96, effective 04/01/96. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-003, filed 10/10/89, effective 11/24/89; 87-24-051 (Order 87-24), § 296-65-003, filed 11/30/87. Statutory Authority: SSB 4209, 1985 c 387. 85-21-080 (Order 85-30), § 296-65-003, filed 10/22/85.]

WAC 296-65-005 Asbestos worker training course content. An approved asbestos worker training course shall consist of four days of training with a minimum of thirty-two hours. This initial training course shall provide, at a minimum, information on the following topics:

(1) The physical characteristics of asbestos including types, fiber size, aerodynamic characteristics and physical appearance.

(2) Examples of different types of asbestos and asbestos-containing materials. Real asbestos shall be used only for observation by trainees and shall be enclosed in sealed unbreakable containers.

WAC 296-65-005 (Cont.)

(3) The health hazards of asbestos including the nature of asbestos related diseases, routes of exposure, dose-response relationships, synergism between cigarette smoking and asbestos exposure, latency period of diseases, hazards to immediate family, and the health basis for asbestos standards.

(4) Employee personal protective equipment including the classes and characteristics of respirator types, limitations of respirators, proper selection, inspection, donning, use, maintenance and storage procedure, methods for field checking of the facepiece-to-face seal (positive and negative-pressure checks), qualitative and quantitative fit testing procedures, variability between field and laboratory protection factors, factors that alter respirator fit (e.g., eye glasses and facial hair), the components of a proper respiratory protection program, respirator program administrator, requirements on oil lubricated reciprocating piston compressors for breathing air, and selection and use of personal protective clothing. Qualitative or quantitative fit testing shall be performed on at least one student for demonstration purposes and in accordance with WAC 296-62-07715 and 296-62-07739.

(5) Use, storage and handling of launderable clothing, nonslip footwear, gloves, eye protection and hard hats.

(6) Medical monitoring procedures and requirements, including the provisions of WAC 296-62-071 through 296-62-07121 and 296-62-07725, any additional recommended procedures and tests, benefits of medical monitoring and employee access to records.

(7) Air monitoring procedures and requirements specified in WAC 296-62-07709, including a description of equipment, sampling methods and strategies, reasons for air monitoring, types of samples, including area, personal and clearance samples, current standards with proposed changes if any, employee observation and notification, recordkeeping and employee access to records, interpretation of air monitoring results, and analytical methods for bulk and air samples.

(8) State-of-the-art work practices for asbestos removal and encapsulation activities including purpose, proper construction and maintenance of barriers and decontamination enclosure systems, posting of warning signs, electrical and ventilation system lock-out, proper working techniques and tools with vacuum attachments for minimizing fiber release, use of wet methods and surfactants, use of negative-pressure ventilation equipment for minimizing employee exposure to asbestos fibers and contamination prevention, scoring and breaking techniques for rigid asbestos products, glove bag techniques, recommended and prohibited work practices, potential exposure situations, emergency procedures for sudden releases, use of HEPA vacuums and proper clean-up and disposal procedures. Work practice requirements for removal, encapsulation, enclosure, repair, and waste transportation shall be discussed individually. Appropriate work practices for both indoor and outdoor asbestos projects shall be included.

(9) Personal hygiene including entry and exit procedures for the work area, use of showers and prohibition of eating, drinking, smoking and chewing (gum or tobacco) in the work area. Potential exposures, such as family exposure shall also be included.

(10) Additional safety hazards that may be encountered during asbestos removal and encapsulation activities and hazard abatement, including electrical hazards, scaffold and ladder hazards, slips, trips and falls, confined spaces, noise, and heat stress.

(11) The requirements, procedures and standards established by:

(a) The Environmental Protection Agency, 40 CFR Part 61, Subparts A and M, and 40 CFR Part 763.

(b) Washington state department of ecology.

(c) Local air pollution control agencies.

WAC 296-65-005 (Cont.)

(d) Washington state department of labor and industries, division of industrial safety and health, chapter 49.17 RCW (Washington Industrial Safety and Health Act), chapter 49.26 RCW (Health and safety--Asbestos), and ensuing regulations.

(12) Actual worksite considerations.

(13) The instruction required by this section shall include, at a minimum fourteen hours of hands-on training for the following:

(a) Glove bag techniques;

(b) The opportunity to don respirators including half facepiece and full facepiece air purifying respirators, powered air purifying respirators (PAPR), and Type-C supplied-air respirators;

(c) Removal of sprayed-on or troweled-on material, and pipe lagging;

(d) Basic construction of a decontamination unit, and proper entry and exit;

(e) Suit-up in protective clothing consisting of coveralls, foot coverings and head coverings.

(14) Course review, a review of the key aspects of the training course.

(15) Asbestos-containing materials shall not be used for hands-on training.

(16) In recognition that asbestos abatement is an evolving industry, the department reserves the right to require additional subjects to be taught and to specify the amount of time which shall be allotted to adequately cover required subjects. To assure adequate coverage of required material, each sponsor shall be provided and required to incorporate into the training course, a detailed outline of subject matter developed by the department.

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.060, 96-05-056 (Order 95-18), § 296-65-005, filed 02/16/96, effective 04/01/96. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), 296-65-005, filed 10/10/89, effective 11/24/89; 87-24-051 (Order 87-24), § 296-65-005, filed 11/30/87. Statutory Authority: RCW 49.17.050(2) and 49.17.040. 87-10-008 (Order 87-06), § 296-65-005, filed 4/27/87. Statutory Authority: SSB 4209, 1985 c 387. 85-21-080 (Order 85-30), § 296-65-005, filed 10/22/85.]

WAC 296-65-007 Asbestos supervisor training course content. An approved asbestos supervisor training course shall consist of at least five days of training. This initial training course shall include lectures, demonstrations, at least fourteen hours of hands-on training, course review and a written examination. Audio-visual materials, where appropriate, are recommended to complement lectures. The training course shall provide, at a minimum, information on the following topics:

(1) The physical characteristics of asbestos and asbestos-containing materials including identification of asbestos, aerodynamic characteristics, typical uses, physical appearance, hazard assessment considerations, and a summary of abatement control options.

(2) Health effects related to asbestos exposure including the nature of asbestos related diseases, routes of exposure, dose-response relationships and the lack of a safe level of exposure, synergism between asbestos exposure and cigarette smoking, latency period, hazards to the immediate family and the health basis for the standard.

(3) Employee personal protective equipment including the classes and characteristics of respirator types, limitations of respirators, proper selection, inspection, donning, use, maintenance, and storage procedures,

methods for field checking of the facepiece-to-face seal (positive and negative pressure checks), variability between field and laboratory protection factors, quantitative and qualitative fit test requirements, factors

WAC 296-65-007 (Cont.)

that alter respirator fit (facial hair, scars, etc.), the components of a proper respirator program, requirements for oil lubricated reciprocating compressors, maintenance of Type-C systems, standards for breathing air, selection and use of personal protective clothing, use, storage, and handling of nondisposable clothing, and regulations covering personal protective equipment.

(4) State-of-the-art work practices for asbestos removal and encapsulation activities including purpose, proper construction and maintenance of barriers and decontamination enclosure systems, posting of warning signs, electrical and ventilation system lock-out, proper working techniques and tools with vacuum attachments for minimizing fiber release, use of wet methods and surfactants, use of negative-pressure ventilation equipment for minimizing employee exposure to asbestos fibers and contamination prevention, scoring and breaking techniques for rigid asbestos products, glove bag techniques, recommended and prohibited work practices, potential exposure situations, emergency procedures for sudden releases, use of HEPA vacuums and proper clean-up and disposal procedures. Work practice requirements for removal, encapsulation, and repair shall be discussed separately. Appropriate work practices for both indoor and outdoor asbestos projects shall be included.

(5) Personal hygiene including entry and exit procedures for the work area, use of showers and prohibition of eating, drinking, smoking, and chewing (gum and tobacco) in the work area. Potential exposures, such as family exposure shall also be included.

(6) Additional safety hazards that may be encountered during asbestos abatement activities and how to deal with them, including electrical hazards, heat stress, air contaminants other than asbestos, fire and explosion hazards, scaffold and ladder hazards, slips, trips, and falls, confined space entry requirements, and noise hazards.

(7) Medical monitoring procedures and requirements, including the provisions of WAC 296-62-071 through 296-62-07121 and 296-62-07725, any additional recommended procedures and tests, benefits of medical monitoring and recordkeeping requirements.

(8) Air monitoring procedures and requirements specified in WAC 296-62-07709, including a description of equipment, sampling methods and strategies, reasons for air monitoring, types of samples, including area, personal and clearance samples, a description of aggressive sampling, current standards with proposed changes if any, employee observation and notification, recordkeeping, interpretation of air monitoring results, specifically from analyses performed by polarized light, phase contrast, and electron microscopy.

(9) The requirements, procedures, and standards established by:

(a) The Environmental Protection Agency, 40 CFR Part 61, Subparts A and M, and 40 CFR Part 763.

(b) The Washington state department of ecology.

(c) Local air pollution control agencies.

(d) Washington state department of labor and industries, division of industrial safety and health, chapter 49.17 RCW (Washington Industrial Safety and Health Act), chapter 49.26 RCW (Health and safety--Asbestos), and ensuing regulations.

(10) Actual worksite considerations.

(11) Insurance and liability issues including contractor issues, industrial insurance coverage and exclusions, third party liabilities and defenses, private insurance coverage and exclusions, recordkeeping recommended for legal and insurance purposes.

WAC 296-65-007 (Cont.)

(12) Supervisory techniques for asbestos abatement projects including supervisory practices to enforce and reinforce the required work practices and discourage unsafe work practices.

(13) Contract specifications including a discussion of the key elements to be included in contract specifications.

(14) A minimum of fourteen hours of hands-on training for the following:

(a) Calibration of air-sampling equipment;

(b) Routine maintenance of air-purifying and air-supplied respirators;

(c) Setup of a decontamination unit including calculating the number of negative air machines needed as well as proper placement of the machines within the enclosure; and

(d) Quantitative and qualitative fit-testing protocols.

(15) Course review, a review of the key aspects of the training course.

(16) In recognition that asbestos abatement is an evolving industry, the department reserves the right to require additional subjects to be taught and to specify the amount of time which shall be allotted to adequately cover required subjects. To assure adequate coverage of required material, each sponsor shall be provided and required to incorporate into their training course, a detailed outline of subject matter developed by the department.

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.060, 96-05-056 (Order 95-18), § 296-65-007, filed 02/16/96, effective 04/01/96. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-007, filed 10/10/89, effective 11/24/89.]

WAC 296-65-010 Asbestos worker certification.

(1) For the purposes of this section **"individual"** means any natural person.

(2) To qualify for an asbestos worker certificate, an individual must do the following:

(a) Successfully complete an approved asbestos worker training course;

(b) Achieve a score of at least seventy percent on a one hundred question multiple choice closed book examination approved by the department but administered by the training course sponsor. If an individual does not pass the examination, then another examanation (meeting the above criteria) may be given after a sufficient period of study. The new examination must not duplicate more than fifty percent of the questions used on prior examinations;

(c) Submit to the department a timely application validated by an approved training course sponsor. To be considered timely, an application must be received by the department no later than sixty days after the completion of the course. In the event that an application is not timely, the individual will be required to pass, with a score of at least seventy percent, an examination administered by the department. A nonrefundable fifty-dollar fee will be assessed when the application is submitted to the department; and

(d) Pay the fee prescribed in WAC 296-65-025.

(3) Individuals must not perform any asbestos project work prior to issuance of the certificate.

(4) Certificates will be issued and mailed to the individual applicants and will be valid for one year from the date of issuance.

WAC 296-65-010 (Cont.)

(5) Certified asbestos workers shall attend an eight-hour worker refresher course prior to certificate renewal.

(a) The course shall, at a minimum, adequately review the subjects required by WAC 296-65-005, update information on state-of-the-art procedures and equipment, and review regulatory changes and interpretations. The department may require specific subjects.

(b) An application for renewal of the certificate must be validated by the refresher training course instructor.

(c) The refresher course must be taken prior to expiration of the certificate .

(d) The department must receive the certificate renewal application no later than the expiration date of the current certificate. Applicants missing this renewal deadline will be required to pass, with a score of seventy percent, an examination administered by the department. A nonrefundable fifty-dollar fee will be charged to take this examination.

(e) Individuals whose certificates have been expired for more than six months will be required to retake the entire basic worker course.

(6) The initial TSCA Title II worker accreditation certificate and the current worker certificate must be available for inspection at all times at the location of the asbestos project.

(7) The department may suspend or revoke a certificate as provided in WAC 296-65-050 and chapter 296-350 WAC.

[Statutory Authority: RCW 49.17.040, .050; RCW 49.26.040 and 49.26.130. 99-17-026 (Order 98-17), § 296-65-010, filed 08/10/99, effective 11/10/99. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.060, 96-05-056 (Order 95-18), § 296-65-010, filed 02/16/96, effective 04/01/96. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-010, filed 10/10/89, effective 11/24/89. Statutory Authority: SSB 4209, 1985 c 387. 85-21-080 (Order 85-30), § 296-65-010, filed 10/22/85.]

WAC 296-65-012 Asbestos supervisor certification.

(1) For the purposes of this section, **"individual"** means any natural person.

(2) To qualify for an asbestos supervisor certificate, an individual must meet the following criteria:

(a) Have at least 1600 hours of experience in one or more of the following disciplines:

(i) Asbestos abatement;

(ii) Asbestos project design;

(iii) Consultation on asbestos abatement projects;

(iv) Operations and maintenance program supervision;

(v) Construction project supervision.

(b) Successfully complete an approved asbestos supervisor training course;

(c) Achieve a score of at least seventy percent on a one hundred question multiple choice closed book examination approved by the department but administered by the training course sponsor. If an individual does not pass the examination, then another examanation (meeting the above criteria)

may be given after a sufficient period of study. The new examination must not duplicate more than fifty percent of the questions used on prior examanations;

WAC 296-65-012 (Cont.)

(d) Submit to the department a timely application validated by an approved training course sponsor. To be considered timely, an application must be received by the department no later than sixty days after the completion of the course. In the event that an application is not timely, the individual will be required to pass, with a score of at least seventy percent, an examination administered by the department. A nonrefundable fifty-dollar fee will be assessed when the application is submitted to the department; and

(e) Pay the fee prescribed in WAC 296-65-025.

(3) An individual must not supervise any asbestos project prior to issuance of the certificate.

(4) Certificates will be issued and mailed to the individual applicants and will be valid for one year from the date of issuance.

(5) A certified asbestos supervisor must attend an eight-hour supervisor refresher course prior to certificate renewal. It is not necessary to also take a worker refresher course.

(a) The course must, at a minimum, adequately review the subjects required by WAC 296-65-007, update information on state-of-the-art procedures and equipment, and review regulatory changes and interpretations. The department may require specific subjects.

(b) An application for renewal of the certificate must be validated by the refresher training course instructor.

(c) The refresher course must be taken prior to expiration of the certificate.

(d) The department must receive the certificate renewal application no later than the expiration date of the current certificate. Applicants missing this renewal deadline will be required to pass, with a score of seventy percent, an examination administered by the department. A nonrefundable fifty-dollar fee will be charged to take this examination.

(e) Individuals whose certificates have been expired for more than six months will be required to retake the entire basic supervisor course.

(6) The initial TSCA Title II supervisor accreditation certificate and the current supervisor certificate must be available for inspection at all times at the location of the asbestos project.

(7) The department may suspend or revoke a certificate as provided in WAC 296-65-050 and chapter 296-350 WAC.

[Statutory Authority: RCW 49.17.040, .050; RCW 49.26.040 and 49.26.130. 99-17-026 (Order 98-17), § 296-65-012, filed 08/10/99, effective 11/10/99. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.060, 96-05-056 (Order 95-18), § 296-65-012, filed 02/16/96, effective 04/01/96. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-012, filed 10/10/89, effective 11/24/89.]

WAC 296-65-015 Training course approval.

(1) Basic and refresher asbestos training courses may be sponsored by any individual, person, or other entity having department approval. Approval shall be contingent on the sponsor's compliance, as applicable, with licensing requirements established by the state board of vocational education.

(2) Prior to receiving department approval, each course shall be evaluated by the department for the breadth of knowledge and experience required to properly train asbestos workers or supervisors. Course content

shall be carefully scrutinized for adequacy and accuracy. Training techniques will be evaluated by the department.

WAC 296-65-015 (Cont.)

(3) Sponsors of basic and refresher training courses proposed for approval must submit:

(a) Background information about course sponsors;

(b) Course locations and fees;

(c) Copies of course handouts;

(d) A detailed description of course content and the amount of time allotted to each major topic;

(e) A description of teaching methods to be utilized and a list of all audio-visual materials; the department may, in its discretion, request that copies of the materials be provided for review. Any audio-visual materials provided to the department will be returned to the applicant;

(f) A list of all personnel involved in course preparation and presentation and a description of the background, special training and qualifications of each. Instructors shall have academic and/or field experience in asbestos abatement. The department may, in its discretion, require proposed instructors to pass an examination on subjects related to their respective topics of instruction;

(g) A description of student evaluation methods and a copy of the required written examination including the scoring methodology to be used in grading the examination;

(h) A description of course evaluation methods;

(i) Any restrictions on attendance (language, class size, affiliation, etc.);

(j) A list of any other states that currently approve the training course;

(k) A letter from the course provider that clearly indicates how the course provider meets the EPA MAP requirements; and

(l) The amount and type of hands-on training for initial training courses.

(4) Application for training course approval and course materials shall be submitted to the department at least sixty days prior to the requested approval date. Materials may be mailed to:

Asbestos Certification Program
Department of Labor and Industries
P.O. Box 44614
Olympia, Washington 98504-4614

(5) The decision to grant or renew approval of a basic or refresher asbestos training course shall be in the sole discretion of the department.

Following approval of a basic or refresher asbestos training course, the department will issue the course sponsor an approval which is valid for one year from the date of issuance. Application for renewal must follow the procedures described in subsections (3) and (4) of this section.

Following approval of a basic or refresher asbestos training course, in recognition that asbestos abatement is an evolving industry, the department reserves the right to require additional subjects to be taught and to specify the amount of time which shall be allotted to adequately cover required subjects. To assure

adequate coverage of required material, each sponsor shall be provided and required to incorporate into their training course, a detailed outline of subject matter developed by the department.

WAC 296-65-015 (Cont.)

(6) To be considered timely, the training course approval renewal must be received by the department no later than thirty days before the certificate expiration date.

(7) Any changes to a training course must be approved by the department in advance.

(8) The course sponsor shall provide the department with a list of all persons who have completed a basic or refresher training course. The list must be provided no later than ten days after a course is completed and must include the name and address of each trainee.

(9) The course sponsor must notify the department, in writing, at least fourteen days before a training course is scheduled to begin. The notification must include the date, time and address where the training will be conducted.

(10) A representative of the department may, at the department's discretion, attend a training course as an observer to verify that the training course is conducted in accordance with the program approved by the department.

(11) Course sponsors conducting training outside the state of Washington shall reimburse the department for reasonable travel expenses associated with department audits of the training courses. Reasonable travel expenses are defined as current state of Washington per diem and travel allowance rates including airfare and/or surface transportation rates. Such reimbursement shall be paid within thirty days of receipt of the billing notice.

(12) The training course sponsor shall limit each class to a maximum of thirty participants.

(13) The instructor to student ratio shall not exceed one-to-ten for any of the training required by WAC 296-65-005(13) and 296-65-007(14).

(14) The department may terminate the training course approval, if in the department's judgment the sponsor fails to maintain the course content and quality as initially approved, or fails to make changes to a course as required by WAC 296-65-015(5). The minimum criteria for withdrawal of training course approval shall include:

(a) Misrepresentation of the extent of training courses approval by a state or EPA;

(b) Failure to submit required information or notification in a timely manner;

(c) Failure to maintain requisite records;

(d) Falsification of accreditation records, instructor qualifications, or other accreditation information; or

(e) Failure to adhere to the training standards and accreditation requirements of chapter 296-65 WAC.

(15) Any "notice of termination of training course approval" issued by the department may act as an order of immediate restraint as described by RCW 49.17.130.

(16) Recordkeeping requirements for training providers: All approved providers of accredited asbestos training courses must comply with the following minimum recordkeeping requirements:

(a) Training course materials. A training provider must retain copies of all instructional materials used in delivery of the classroom training such as student manuals, instructor notebooks and handouts.

WAC 296-65-015 (Cont.)

(b) Instructor qualifications. A training provider must retain copies of all instructors' resumes, and the documents approving each instructor issued by either EPA or the department. Instructors must be approved by the department before teaching courses for accreditation purposes. A training provider must notify the department in advance whenever it changes course instructions.

Records must accurately identify the instructors that taught each particular course for each date that a course is offered.

(c) Examinations. A training provider must document that each person who receives an accreditation certificate for an initial training course has achieved a passing score on the examination. These records must clearly indicate the date upon which the exam was administered, the training course and discipline for which the exam was given, the name of the person who proctored the exam, a copy of the exam, and the name and test score of each person taking the exam. The topic and dates of the training course must correspond to those listed on that person's accreditation certificate.

(d) Accreditation certificates. The training providers shall maintain records that document the names of all persons who have been awarded certificates, their certificate numbers, the disciplines for which accreditation was conferred, training and expiration dates, and the training location. The training provider shall maintain the records in a manner that allows verification by telephone of the required information.

(e) Verification of certificate information. Training providers of refresher training courses shall confirm that their students possess valid accreditation before granting course admission.

(f) Records retention and access.

(i) The training provider shall maintain all required records for a minimum of three years. The training provider, however, may find it advantageous to retain these records for a longer period of time.

(ii) The training provider must allow reasonable access to all of the records required by the MAP, and to any other records which may be required by the department for the approval of asbestos training providers or the accreditation of asbestos training courses, to both EPA and to the department, on request.

(iii) If a training provider ceases to conduct training, the training provider shall notify the department and give it the opportunity to take possession of that provider's asbestos training records.

(17) A representative of the department may, at the department's discretion, provide an examination as a substitution to the examination administered by the training course provider. The examination replacement will be used to verify that the training course is conducted in accordance with the program approved by the department.

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.060, 97-01-079 (Order 96-12), § 296-62-015, filed 12/17/96, effective 03/01/97 03/01/97. 96-05-056 (Order 95-18), 296-65-015, filed 02/16/96, effective 04/01/96. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-015, filed 10/10/89, effective 11/24/89; 87-24-051 (Order 87-24), § 296-65-015, filed 11/30/87. Statutory Authority: RCW 49.17.050(2) and 49.17.040. 87-10-008 (Order 87-06), § 296-65-015, filed 4/27/87. Statutory Authority: SSB 4209, 1985 c 387. 85-21-080 (Order 85-30), § 296-65-015, filed 10/22/85.]

WAC 296-65-017 Contractor Certification.

(1) In order to obtain certification, an asbestos contractor must submit an application to the department. The application shall provide the following information:

WAC 296-65-017 (Cont.)

(a) A list of asbestos projects conducted by the contractor during the previous twelve months. Such list shall include for each project:

(i) Project name;

(ii) Location;

(iii) Brief description;

(iv) Identity of any citations or enforcement actions issued for violations of asbestos regulations by any local, state, or federal jurisdiction relative to each individual project; and

(v) Name of the on-site project manager or supervisor.

(b) A list of asbestos supervisors (include certification number) working for the company.

(c) A statement certifying that the contractor has read and understands all applicable Washington state rules and regulations regarding asbestos abatement and will comply with them.

(d) A statement certifying that the applicant contractor's asbestos license or accreditation issued by any other state or jurisdiction has not been revoked, suspended, or denied by that state or jurisdiction.

(2) Upon approval, the department will issue the contractor a certificate. Denial of approval shall be in writing.

(3) Certificates shall be valid for a period of twelve months. Certificates may be extended during department review of a renewal application.

Note: In circumstances where it is necessary to coordinate an expiration date with the date of expiration of a contractor registration issued under chapter 18.27 RCW, certificates may be valid for less than one year. In such circumstances, the certificate fee prescribed in WAC 296-65-025 shall be prorated accordingly for the initial application only.

(4) The application for certificate renewal shall contain the information specified in subsection (1) of this section.

(5) Applications for renewal must be received by the department not less than sixty days before the certificate expires.

(6) The department may suspend or revoke the certificate as provided in WAC 296-65-050 and chapter 296-350 WAC.

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.060, 96-05-056 (Order 95-18), § 296-65-017, filed 02/16/96, effective 04/01/96. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-017, filed 10/10/89, effective 11/24/89.]

WAC 296-65-020 Notification requirements.

(1) Before any person or individual begins an asbestos project as defined in WAC 296-62-07722 and 296-65-003 involving more than forty-eight square feet or ten linear feet, unless the surface area of the pipe is greater than forty-eight square feet, of asbestos containing material, written notification must be provided to the department. Notices must include:

WAC 296-65-020 (Cont.)

(a) Name and address of the owner and contractor.

(b) Description of the facility including size, age, and prior use of the facility.

(c) Amount of asbestos-containing material to be removed or encapsulated.

(d) Location of the facility.

(e) Exact starting and completion dates of the asbestos project, including shifts during which abatement work will be accomplished. These dates must correspond to the dates specified for asbestos removal in the contract. Any change in these dates or work shifts must be communicated to the department by an amended notice filed at the office where the original notice was filed.

- When the starting date or time changes, the amended notice must be filed no later than 5:00 p.m. on the business day prior to the starting date in the original notice and prior to the new starting date.
- When the completion date or time changes, the amended notice must be filed before completion of the project, and within eight hours from when the person learns that the change will occur.

Notice may be filed by facsimile (FAX).

(f) Nature of the project and methods used to remove or encapsulate the material.

(2) Notices must be received by the department no later than ten days prior to the start of the project. Notices must be sent directly to the department of labor and industries regional office having jurisdiction on the project.

(3) The director may waive the prenotification requirement upon written request of an owner for large-scale, on-going projects. In granting such a waiver, the director will require the owner to provide prenotification if significant changes in personnel, methodologies, equipment, work site, or work procedures occur or are likely to occur. The director will further require annual resubmittal of such notification.

(4) The director, upon review of an owner's reports, work practices, or other data available as a result of inspections, audits, or other authorized activities, may reduce the size threshold for prenotification required by this section. Such a change will be based on the director's determination that significant problems in personnel, methodologies, equipment, work site, or work procedures are creating the potential for violations of this chapter.

(5) Emergency projects which disturb or release asbestos into the air must be reported to the department within three working days after commencement of the project in the manner otherwise required under this chapter. The employees, the employees' collective bargaining representative or employee representative, if any, and other persons at the project area must be notified of the emergency as soon as possible by the person undertaking the emergency project. A notice describing the nature of the emergency project must be clearly posted adjacent to the work area.

(6) Incremental phasing in the conduct or design of asbestos projects or otherwise conducting or designing asbestos projects of a size less than the threshold exemption specified in subsection (1) of this section, with the intent of avoiding the notification requirements, is a violation of this chapter.

[Statutory Authority: RCW 49.17.040, .050; RCW 49.26.040 and 49.26.130. 99-17-026 (Order 98-17), § 296-65-020, filed 08/10/99, effective 11/10/99. Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.060, 96-05-056 (Order 95-18), § 296-65-020, filed 02/16/96, effective 04/01/96. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-020, filed 10/10/89, effective 11/24/89; 87-24-051 (Order 87-24), 296-65-020, filed 11/30/87. Statutory Authority: RCW 49.17.050(2) and 49.17.040. 87-10-008 (Order 87-06), § 296-65-020, filed 4/27/87. Statutory Authority: SSB 4209, 1985 c 387. 85-21-080 (Order 85-30), § 296-65-020, filed 10/22/85.]

WAC 296-65-025 Fees.

(1) A nonrefundable administrative fee of twenty-five dollars will be assessed for each initial, replacement, or renewal asbestos worker certificate application. The fee (check or money order) must accompany the certificate application and be made payable to the department. An application form may be obtained from any approved training course instructor or directly from the department.

(2) A nonrefundable administrative fee of thirty-five dollars will be assessed for each initial, replacement, or renewal asbestos supervisor certificate application. The fee (check or money order) must accompany the certificate application and be made payable to the department. An application form may be obtained from any approved training course instructor or directly from the department.

(3) A nonrefundable administrative fee of one thousand dollars will be assessed for each initial or renewal contractor certificate application. The fee (check or money order) must accompany the certificate application and be made payable to the department. An application form may be obtained from the department.

Note: In circumstances where it is necessary to coordinate an expiration date with the date of expiration of a contractor registration issued under chapter 18.27 RCW, certificates may be valid for less than one year. In such circumstances, the certificate fee prescribed in WAC 296-65-025 will be prorated accordingly for the initial application only.

(4) A nonrefundable administrative fee of one thousand dollars will be assessed for each initial and renewal application for training course approval. A check or money order must accompany any application made under the provisions of WAC 296-65-015.

[Statutory Authority: RCW 49.17.040, .050; RCW 49.26.040 and 49.26.130. 99-17-026 (Order 98-17), § 296-65-025, filed 08/10/99, effective 11/10/99. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-025, filed 10/10/89, effective 11/24/89; 87-24-051 (Order 87-24), § 296-65-025, filed 11/30/87. Statutory Authority: SSB 4209, 1985 c 387. 85-21-080 (Order 85-30), § 296-65-025, filed 10/22/85.]

WAC 296-65-030 Methods of compliance.

(1) Before submitting a bid or working on an asbestos abatement project, any person or individual must obtain an asbestos contractor certificate as provided in WAC 296-65-017 and must have in its employ at least one certified asbestos supervisor responsible for supervising all asbestos projects undertaken by the contractor.

(2) A certified asbestos supervisor will not be required on asbestos projects involving less than three square feet or three linear feet of asbestos-containing material unless the surface area of the pipe is greater than three square feet. A certified asbestos supervisor is required for all Class I and II asbestos work in accordance with WAC 296-62-07728 (4).

(3) No employee or other individual is eligible to do work or supervise an asbestos project without being issued a certificate by the department.

(a) Employees performing Class I or Class II asbestos work must be certified asbestos workers as specified in WAC 296-62-07722.

(b) Employees performing Class III or Class IV asbestos work specified by WAC 296-62-07722 as an asbestos project shall be certified asbestos workers.

(4) No person may assign any employee, contract with, or permit any individual, to work on an asbestos project as specified in WAC 296-62-07722 in any facility without the project being performed by a certified asbestos worker.

WAC 296-65-030 (Cont.)

(5) A certified asbestos supervisor must provide direct, on-site supervision for an asbestos project. When an employer conducts an asbestos abatement project in its own facility by its own certified employees, supervision may be performed in the regular course of a certified asbestos supervisor's duties. Asbestos workers must have access to and be under the control of certified asbestos supervisors throughout the duration of the project.

(6) Any construction, renovation, remodeling, maintenance, repair, or demolition which was started without meeting the requirements of this section must be halted immediately and cannot be resumed before meeting such requirements.

[Statutory Authority: RCW 49.17.040, .050; RCW 49.26.040 and 49.26.130. 99-17-026 (Order 98-17), § 296-65-030, filed 08/10/99, effective 11/10/99. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. 97-19-014 (Order 97-07), 296-65-030, filed 10/05/97, effective 11/05/97. 96-05-056, § 296-65-030, filed 2/16/96, effective 4/1/96. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-030, filed 10/10/89, effective 11/24/89. Statutory Authority: RCW 49.17.050(2) and 49.17.040. 87-10-008 (Order 87-06), § 296-65-030, filed 4/27/87. Statutory Authority: SSB 4209, 1985 c 387. 85-21-080 (Order 85-30), § 296-65-030, filed 10/22/85.]

WAC 296-65-035 Reciprocity.

(1) The department may recognize certifications issued by another state for asbestos workers or supervisors provided that:

(a) The worker is in possession of a currently valid certification from the other state; and

(b) The department evaluates the other state's qualification procedures and determines the certification to be equivalent to the minimum requirements of this chapter.

(2) When the department's evaluation of another state's qualification procedures identifies that equivalent requirements are met, the department is authorized to issue a Washington state certification upon receipt of a completed application.

(3) When the department's evaluation of another state's qualification procedures identifies deficiencies, the department may require specific supplemental training and/or examination before issuing a Washington state certification.

[Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-035, filed 10/10/89, effective 11/24/89.]

WAC 296-65-050 Denial, suspension, and revocation of certificates.

(1) The department may deny, suspend, or revoke a certificate for failure of the holder to comply with any requirement of this chapter or any applicable health and safety standards and regulations.

(2) The criteria for decertification for asbestos workers, supervisors, and contractors shall include:

(a) Performing work requiring accreditation at a job site without being in physical possession of initial and current accreditation certificates;

(b) Permitting the duplication or use of one's own accreditation certificate by another;

(c) Performing work for which accreditation has not been received; or

(d) Obtaining accreditation from a training provider that does not have approval to offer training for the particular discipline from either EPA or from a state that has a contractor accreditation plan at least as stringent as the EPA MAP.

WAC 296-65-050 (Cont.)

(3) The following persons are not certified for the purposes of this chapter and their respective certificate(s) shall be revoked by the department:

(a) Any person who obtains accreditation through fraudulent representation of training or examination documents;

(b) Any person who obtains training documentation through fraudulent means;

(c) Any person who gains admission to and completes refresher training through fraudulent representation of initial or previous refresher training documentation; or

(d) Any person who obtains accreditation through fraudulent representation of accreditation requirements such as education, training, professional registration, or experience.

(4) Before any certificate may be denied, suspended, or revoked, the holder thereof shall be given written notice of the department's intention to do so, mailed by registered mail, return receipt requested, to the holder's last known address. The notice shall enumerate the allegations against such holder and shall give him or her the opportunity to request a conference before the department. At such conference, the department and the holder shall have opportunity to produce witnesses and give testimony.

(5) A denial, suspension, or revocation order may be appealed to the board of industrial insurance appeals within fifteen working days after the denial, suspension, or revocation order is entered. The notice of appeal may be filed with the department or the board of industrial insurance appeals. The board of industrial insurance appeals shall hold the hearing in accordance with procedures established in RCW 49.17.140. Any party aggrieved by an order of the board of industrial insurance appeals may obtain superior court review in the manner provided in RCW 49.17.150.

(6) The department may suspend or revoke any certificate issued under this chapter for a period of not less than six months upon the following grounds:

(a) The certificate was obtained through error or fraud; or

(b) The holder thereof is judged to be incompetent to carry out the work for which the certificate was issued.

[Statutory Authority: RCW 49.17.040, 49.17.050, 49.17.060, 96-05-056 (Order 95-18), § 296-65-050, filed 02/16/96, effective 04/01/96. Statutory Authority: Chapter 49.17 RCW. 89-21-018 (Order 89-10), § 296-65-050, filed 10/10/89, effective 11/24/89.]